

Lab Manual of Web Technology and C-Programming



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Lab Manual of Web Technology and C-Programming

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2022

Ideal International **E – Publication Pvt. Ltd.**

www.isca.co.in



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Title:	Lab Manual of Web Technology and C-Programming
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Edition:	First
Volume:	I

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2022**

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ISBN: 978-93-89817-67-6

ACKNOWLEDGEMENT

The Authors Vaibhav Kant Singh, Akshi Singh and Aishwaryat Singh of the Lab-Manual would like to place their sincere thanks to Smt Sushma Singh, Retired Lecturer of Chhattisgarh Government for providing her support for the preparation of the Lab-Manual. The authors want to thank Smt Mona Singh, Archana Singh and Reema Singh for their support in the writing of the work. The authors want to thank Mr. Abhinav Kant Singh, TI Chhattisgarh Police for his support in the preparation of the Lab-Manual. The authors want to thanks Mr. Abhuday Kant Singh Ranji Trophy Cricketer of Chhattisgarh for his support in writing of the work. The authors want to thanks Miss Priyamvada Singh, Deputy Government Advocate for her support in writing of the work. The authors would like to thanks Miss Shrinika Singh and Miss Abhudita Singh for their love that helped a lot in the creation of the work. The authors would like to thank Smt Anima Singh, Smt Sapna Singh and Smt Seema Singh for their blessings that helped to complete the work. The authors would like to thank Mr. Tara Singh Thakur, Controller of Examination, Sundar Lal Sharma, University, Bilaspur, Chhattigarh for his guidance. The authors would like to thank Dr. Vinay Kumar Singh, Senior Assistant Programmer, Guru Ghasidas Vishwavidyalaya, (Central University), Bilaspur, Chhattisgarh, India for his guidance in the work completed. The authors would like to thank Mr. Rishi Kumar Singh, Bank Employee, Jila Sehkari Bank Bilaspur for his kind support. The authors would like to thank Vaibhav Singh Chandel, Mansi Singh Chandel, Amit Khanna, Anshu Khanna, Shiphi Singh Thakur, Rudra Pratap Singh Thakur, Anant Pratap Singh, Shourya Pratap Singh, Samanvay Singh, Avnindra Pratap Singh, Taniska Singh and Srijan Singh for their support in the preparation of the work. The authors would like to place their thanks to Shri Satyanarayan Singh Thakur, Smt Shashi Thakur, Shri Neeraj Singh Thakur, Smt Nisha Thakur, Shri Dheeraj Singh Thakur, Smt Shruti Thakur, Shri Nitin Singh Thakur, Smt Nutan Thakur, Shri Abhishek Singh Thakur, Smt Varsha Singh Thakur, Mr. Aditya Narayan Singh, Mr. Ayush Singh Thakur, Miss Ashi Singh Thakur, Mr. Rajveer Singh Thakur, Miss Rashi Thakur, Mr. Vivek Singh Thakur, Mr. Vivek Singh Thakur and Master Dhairya Singh Thakur for their love and support required to make the work complete. At last but not the least the authors would like to thank Shaheed Police officer Shri Triveni Kant Singh, Late Shri Babu Bharat Singh, Late Shri Vinod Kumar Singh, Late Shri Pramod Kumar Singh, Late Smt Lal Bacchi Devi and Late Smt Durga Thakur for their blessing

without which the completion of work would not be possible. It is their blessings that is making the authors to complete their work.

TABLE OF CONTENTS		
S.No.	Title	Page No.
Web Technology Lab		
1	LIST OF PROGRAMS OF WEBTECHNOLOGY	4
2	Program in HTML to display the use of “Character Formatting Tags”.	5-6
3	Program in HTML to display the use of “Font tags”.	7-8
4	Program in HTML to Draw a Table using “Table tag”.	9-10
5	Program in HTML to display the use of “Frame tag”	11-12
6	Program in HTML to display a Text box using “Form tag”	13-14
7	Program in HTML to display a Radio button using “Form tag”.	15-16
8	Program in HTML to display a Button using “Form tag”.	17-18
9	Program in HTML to display a Check Box using “Form tag”.	19-20
10	Program in HTML to display the use of “Text Area tag”	21-22
11	Program in HTML to display the use of “Select & Option tag” And Prepare an Index Page Containing all the 10 Programs (Using Hyper linking).	23-26
C Programming Lab		
13	Program in C for “Conversion of temperature from Fahrenheit to Centigrade”	28-29
14	Program in C for “Finding Area of a Rectangle”	30-31
15	Program in C to “Evaluate the polynomial $5x^2-5x+9$ ”	32-33
16	Program in C to “Check an integer for perfect square”	34-35
17	Program in C to “Print the weekday using else-if”	36-38
18	Program in C to “Check whether a number is Armstrong or not”	39-41
19	Program in C to “Find the factorial of a given number”	42-44
20	Program in C to “Check whether a number represent a Fibonacci series or not”	45-47
21	Program in C to “Reverse a given Array”.	48-51
22	Program in C using functions to “Find the greatest of three given numbers.	52-54
25	REFERENCES	61-63

Web Technology Lab

Text Books:-

1. V. Neou and M. Recker, “HTML 3.0 with Javascript”, PTR Publication.

Program Number:-1

Aim:-

Write a Program in HTML to display the use of “Character Formatting Tags”.

Program Window

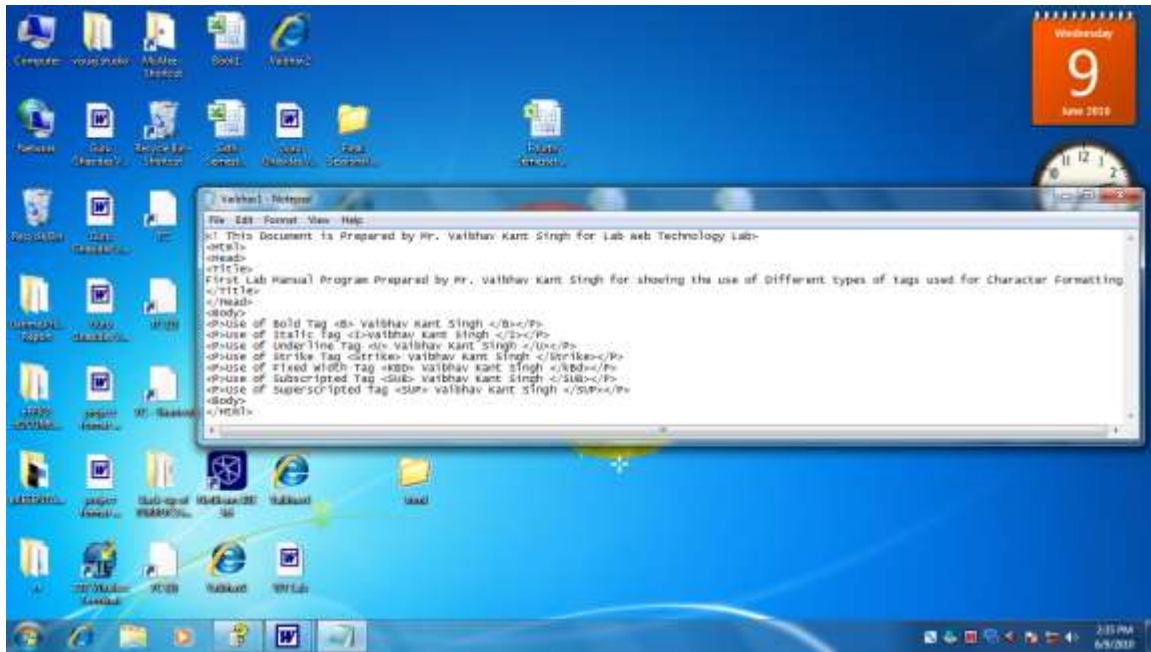


Figure 1:- Program Window for First program[WEBTECHNOLOGY]

Coding:-

```
<! This Document is Prepared by Mr. Vaibhav Kant Singh for Lab Web
Technology Lab>
```

```
<Html>
```

```
<Head>
```

```
<Title>
```

```
First Lab Manual Program Prepared by Mr. Vaibhav Kant Singh for showing
the use of Different types of tags used for Character Formatting
```

```
</Title>
```

```
</Head>
```

```
<Body>
```

```
<P>Use of Bold Tag <B> Vaibhav Kant Singh </B></P>
```

```
<P>Use of Italic Tag <I>Vaibhav Kant Singh </I></P>
```

```
<P>Use of Underline Tag <U> Vaibhav Kant Singh </U></P>
```

```
<P>Use of Strike Tag <Strike> Vaibhav Kant Singh </Strike></P>
```



```
<P>Use of Fixed Width Tag <KBD> Vaibhav Kant Singh </kD></P>  
<P>Use of Subscripted Tag <SUB> Vaibhav Kant Singh </SUB></P>  
<P>Use of Superscripted Tag <SUP> Vaibhav Kant Singh </SUP></P>  
<Body>  
</Html>
```

Output:-

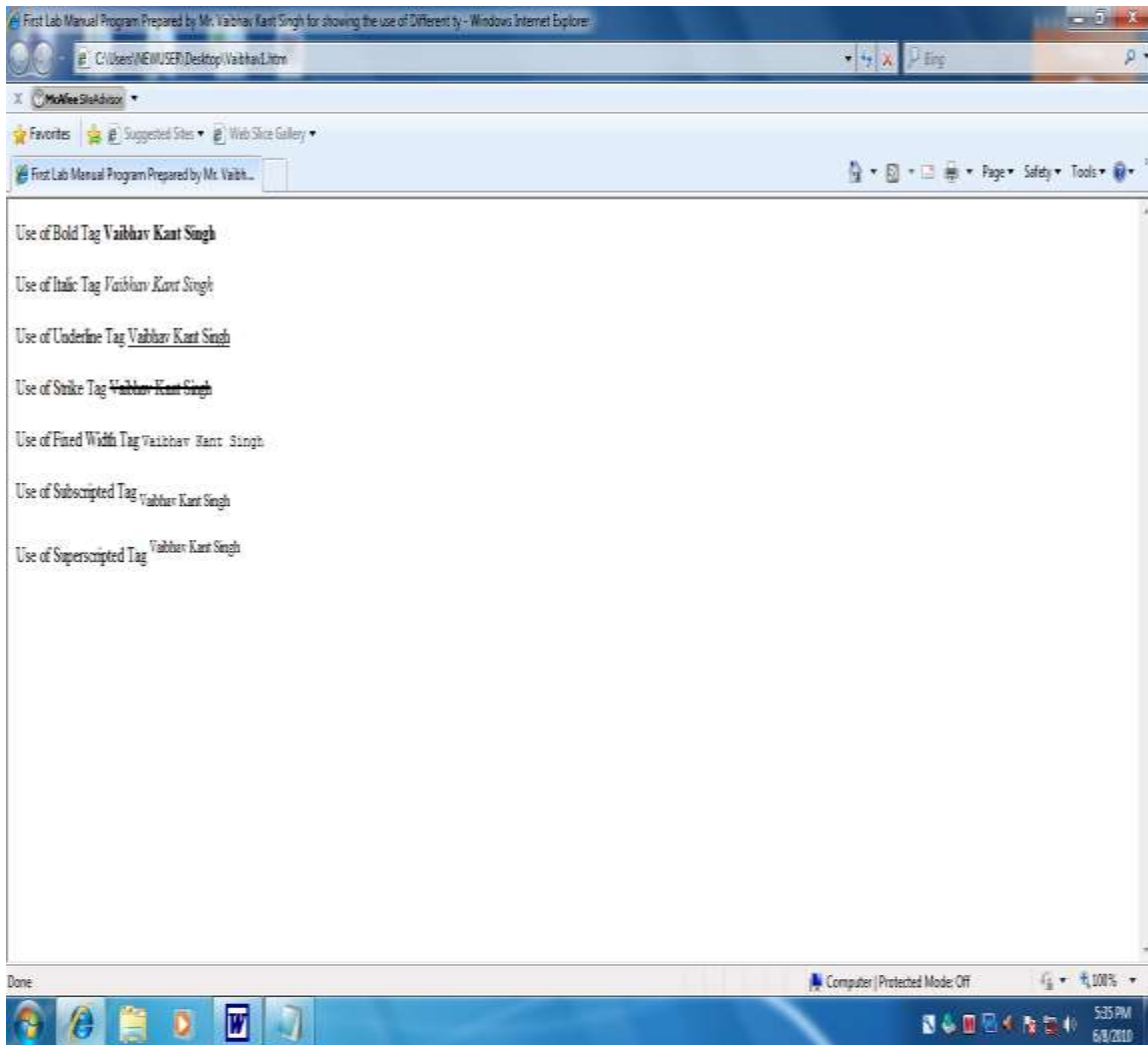


Figure 2:- Output Webpage for First Program[WEBTECHNOLOGY]

Program Number:-2

Aim:-

Write a Program in HTML to display the use of “Font tags”.

Program Window:-

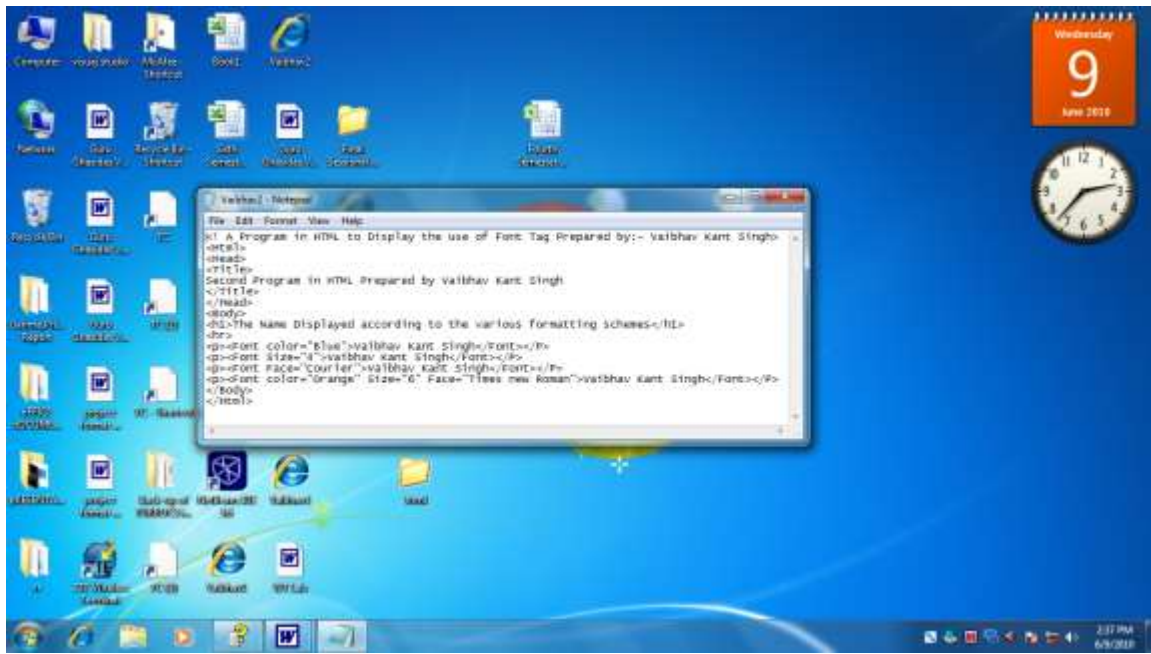


Figure 3:- Program Window for Second program[WEBTECHNOLOGY]

Coding:-

```
<! A Program in HTML to Display the use of Font Tag Prepared by:-
  Vaibhav Kant Singh>
<Html>
<Head>
<Title>
Second Program in HTML Prepared by Vaibhav Kant Singh
</Title>
</Head>
<Body>
<h1>The Name Displayed according to the various formatting schemes</h1>
<hr>
<p><Font color="Blue">Vaibhav Kant Singh</Font></P>
<p><Font Size="4">Vaibhav Kant Singh</Font></P>
```

```
<p><Font Face="Courier">Vaibhav Kant Singh</Font></P>  
<p><Font color="Orange" Size="6" Face="Times new Roman">Vaibhav Kant  
Singh</Font></P>  
</Body>  
</Html>
```

Output:-

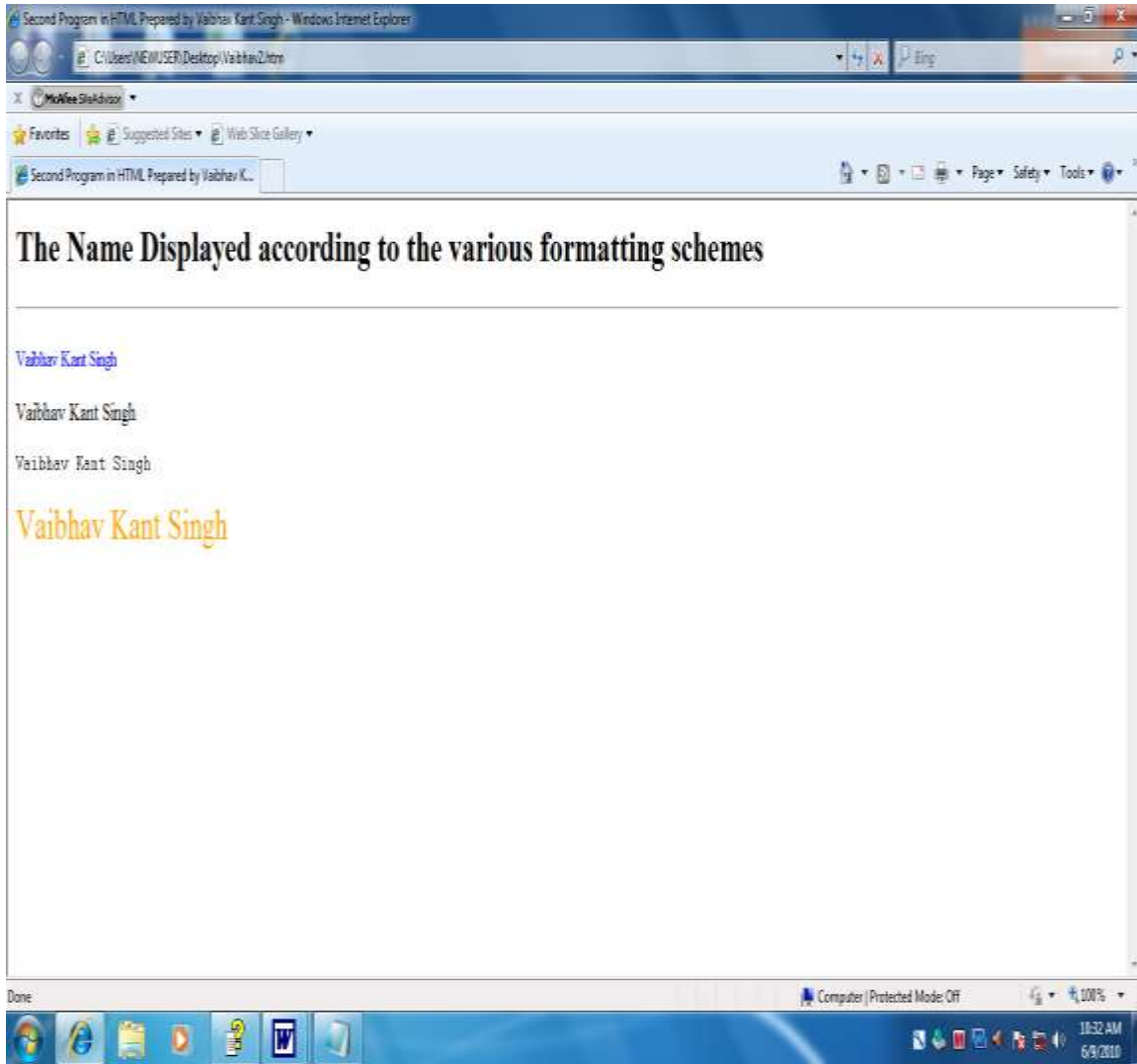


Figure 4:- Output Webpage for the Second Program[WEBTECHNOLOGY]

Program Number:-3

Aim:-

Write a Program in HTML to Draw a Table using “Table tag”.

Program Window:-

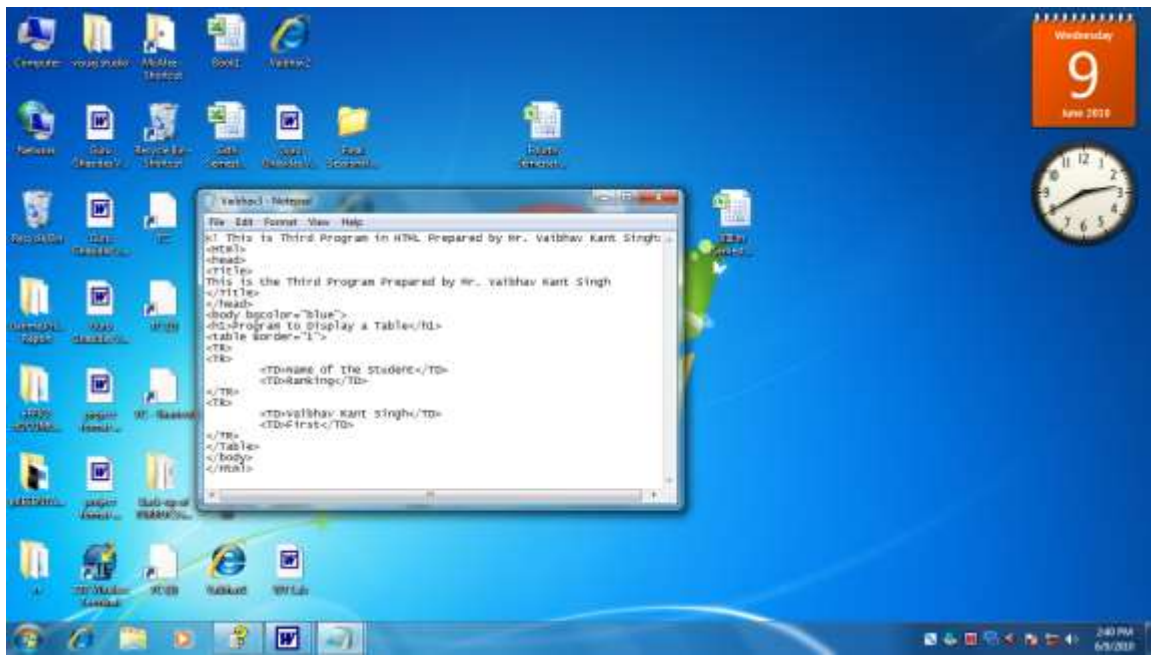


Figure 5:- Program Window for Third Program[WEBTECHNOLOGY]

Coding:-

```
<! This is Third Program in HTML Prepared by Mr. Vaibhav Kant Singh>
<Html>
<head>
<Title>
This is the Third Program Prepared by Mr. Vaibhav Kant Singh
</Title>
</head>
<body bgcolor="blue">
<h1>Program to Display a Table</h1>
<table Border="1">
<TR>
<TR>
<TD>Name of the Student</TD>
<TD>Ranking</TD>
```

```
</TR>
<TR>
  <TD>Vaibhav Kant Singh</TD>
  <TD>First</TD>
</TR>
</Table>
</body>
</Html>
```

Output:-

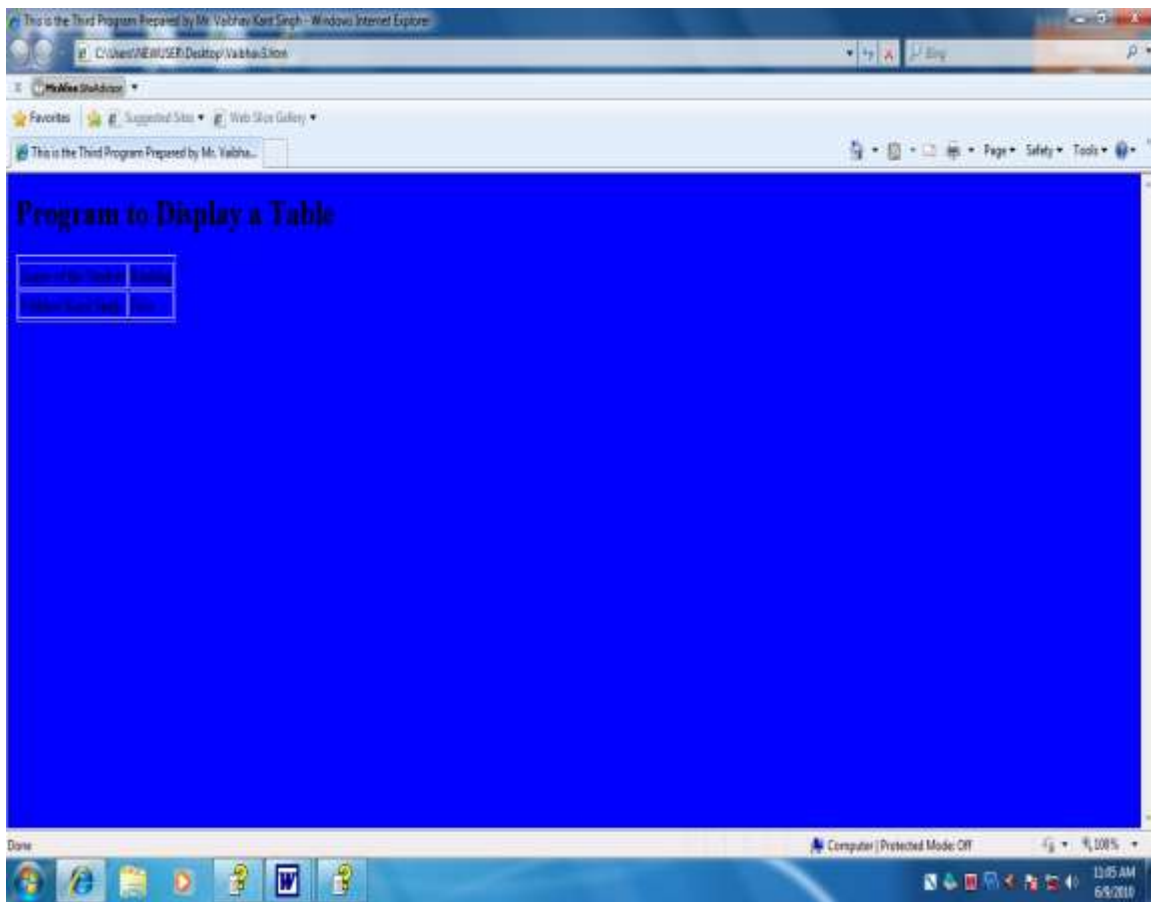


Figure 6:- Output Webpage for third program[WEBTECHNOLOGY]

Program Number:-4

Aim:-

Write a Program in HTML to display the use of “Frame Tags”.

Program Window:-

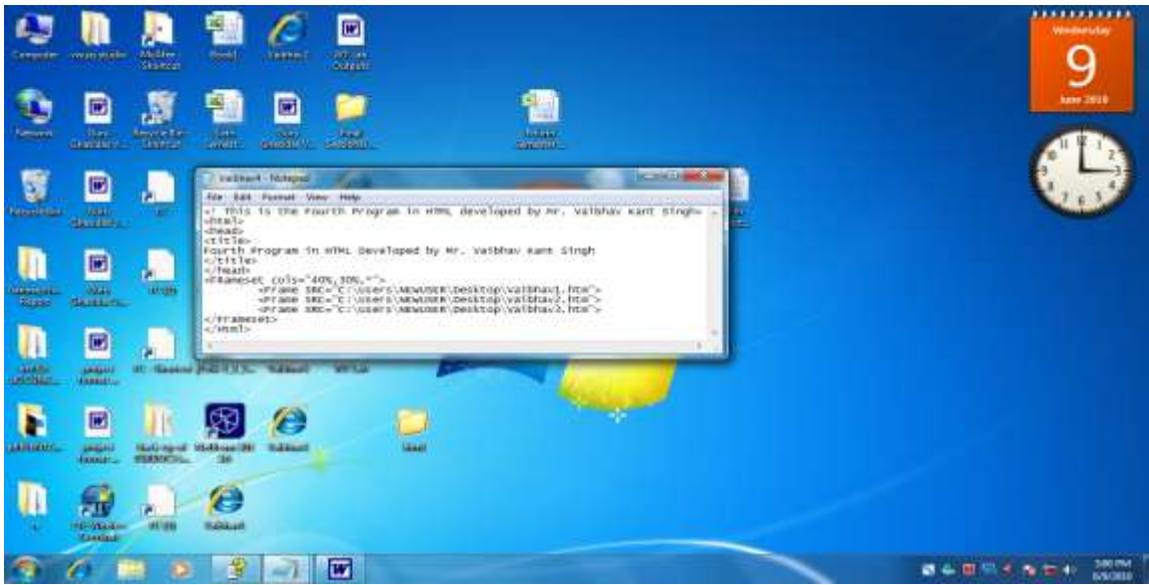


Figure 7:- Program Window for Fourth Program[WEBTECHNOLOGY]

Coding:-

<!-- This is the Fourth Program in HTML developed by Mr. Vaibhav Kant Singh -->

<html>

<head>

<title>

Fourth Program in HTML Developed by Mr. Vaibhav Kant Singh

</title>

</head>

<Frameset cols="40%,30%,*">

<Frame SRC="C:\Users\NEWUSER\Desktop\Vaibhav1.htm">

<Frame SRC="C:\Users\NEWUSER\Desktop\Vaibhav2.htm">

<Frame SRC="C:\Users\NEWUSER\Desktop\Vaibhav3.htm">

</Frameset>

</Html>

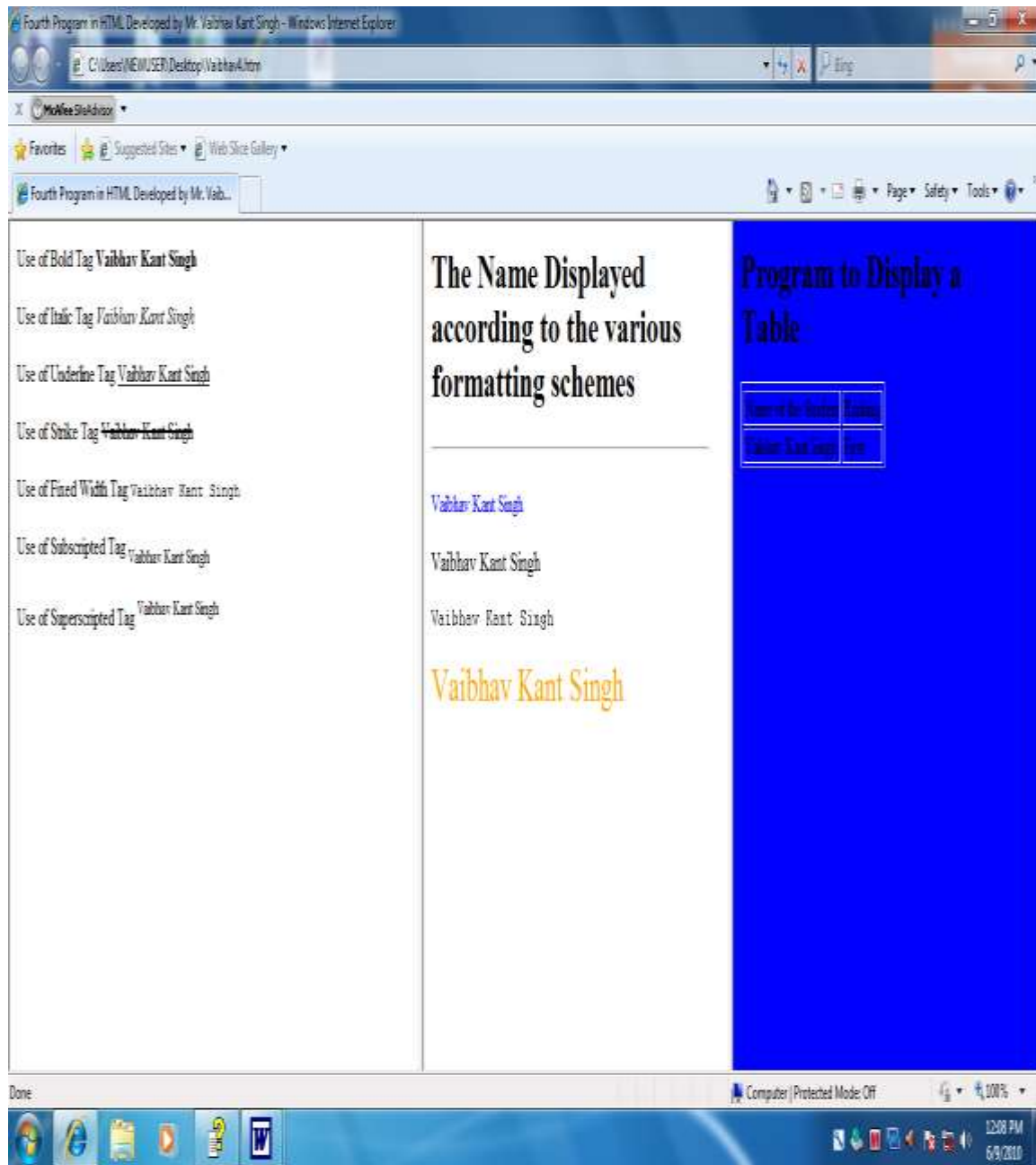
Output:-

Figure 8:- Output Webpage for Fourth Program[WEBTECHNOLOGY]

Program Number:-5

Aim:-

Write a Program in HTML to display a Text box using “Form tag”.

Program Window:-



Figure 9:- Program Window of Fifth Program[WEBTECHNOLOGY]

Coding:-

```
<! Fifth Program in HTML Prepared by Mr. Vaibhav Kant Singh>
<Html>
<head>
<title>
Fifth Program Developed by Mr. Vaibhav Kant Singh
</title>
</head>
<body bgcolor="Yellow">
<form Name="Form1">
<B>Enter Your Name</B>
<Input Type="Text" Name="TXTName" Value="Vaibhav Kant Singh" Size="30">
<BR>
<I>Enter New Name</I>
```



```
<Input Type="Text" Name="TXTNEW" Value="" Size="35">  
</form>  
</body>  
</Html>
```

Output:-

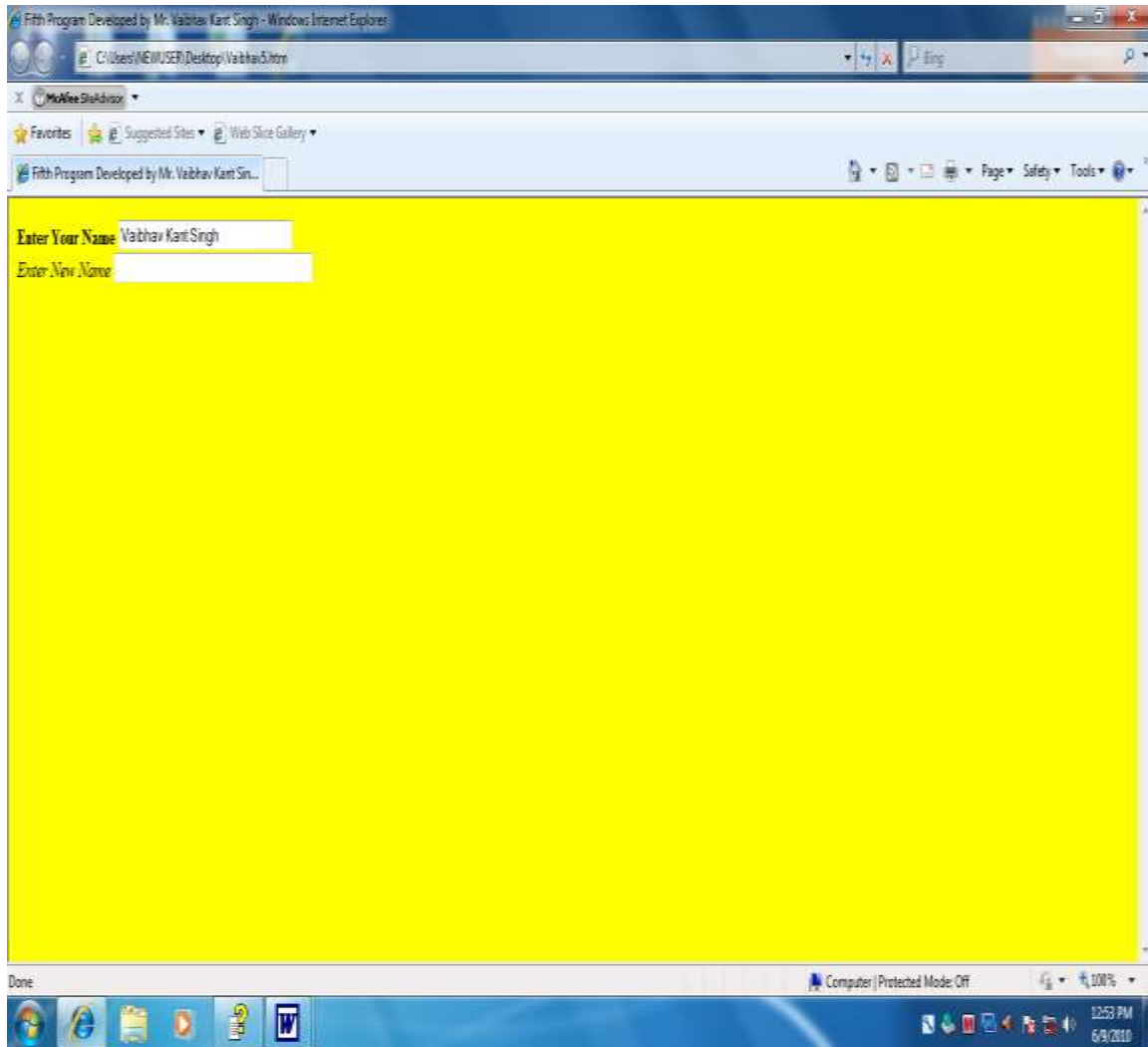


Figure 10:- Output Webpage of Fifth Program[WEBTECHNOLOGY]

Program Number:-6

Aim:-

Write a Program in HTML to display a Radio Button using “Form tag”.

Program Window:-

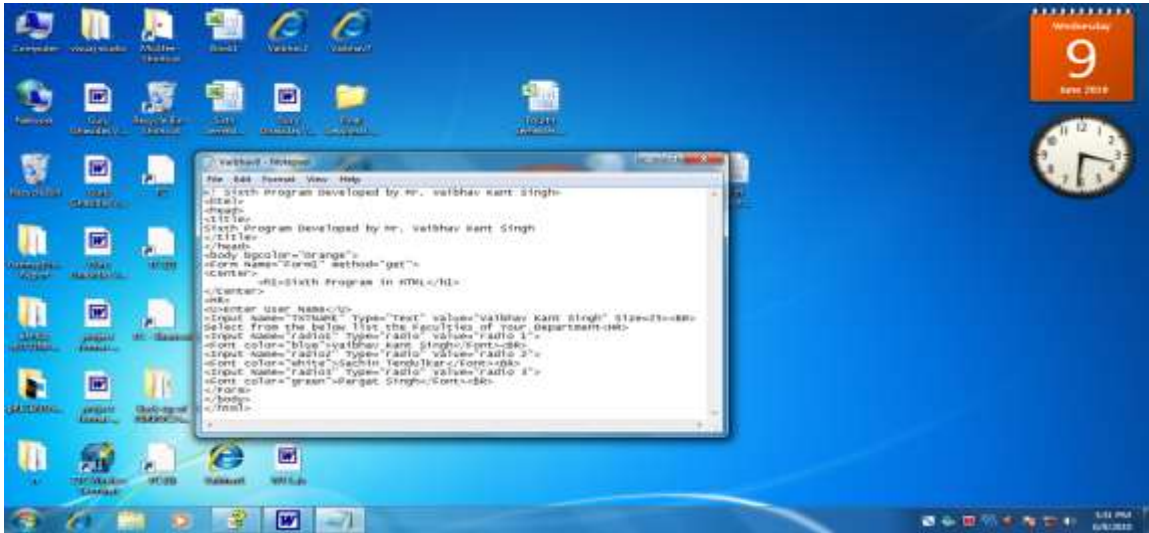


Figure 11:- Program Window of Sixth Program[WEBTECHNOLOGY]

Coding:-

```
<! Sixth Program Developed by Mr. Vaibhav Kant Singh>
<html>
<head>
<title>
Sixth Program Developed by Mr. Vaibhav Kant Singh
</title>
</head>
<body bgcolor="Orange">
<Form Name="Form1" method="get">
<Center>
  <h1>Sixth Program in HTML</h1>
</Center>
<HR>
<U>Enter User Name</U>
<Input Name="TXTNAME" Type="Text" Value="Vaibhav Kant Singh"
Size=25><BR>
Select from the below list the Faculties of Your Department<HR>
```

```
<Input Name="Check1" Type="radio" Value="radio 1">  
<Font color="blue">Vaibhav Kant Singh</Font><BR>  
<Input Name="Check1" Type="radio" Value="radio 2">  
<Font color="white">Sachin Tendulkar</Font><BR>  
<Input Name="Check1" Type="radio" Value="radio 3">  
<Font color="green">Pargat Singh</Font><BR>  
</Form>  
</body>  
</html>
```

Output:-

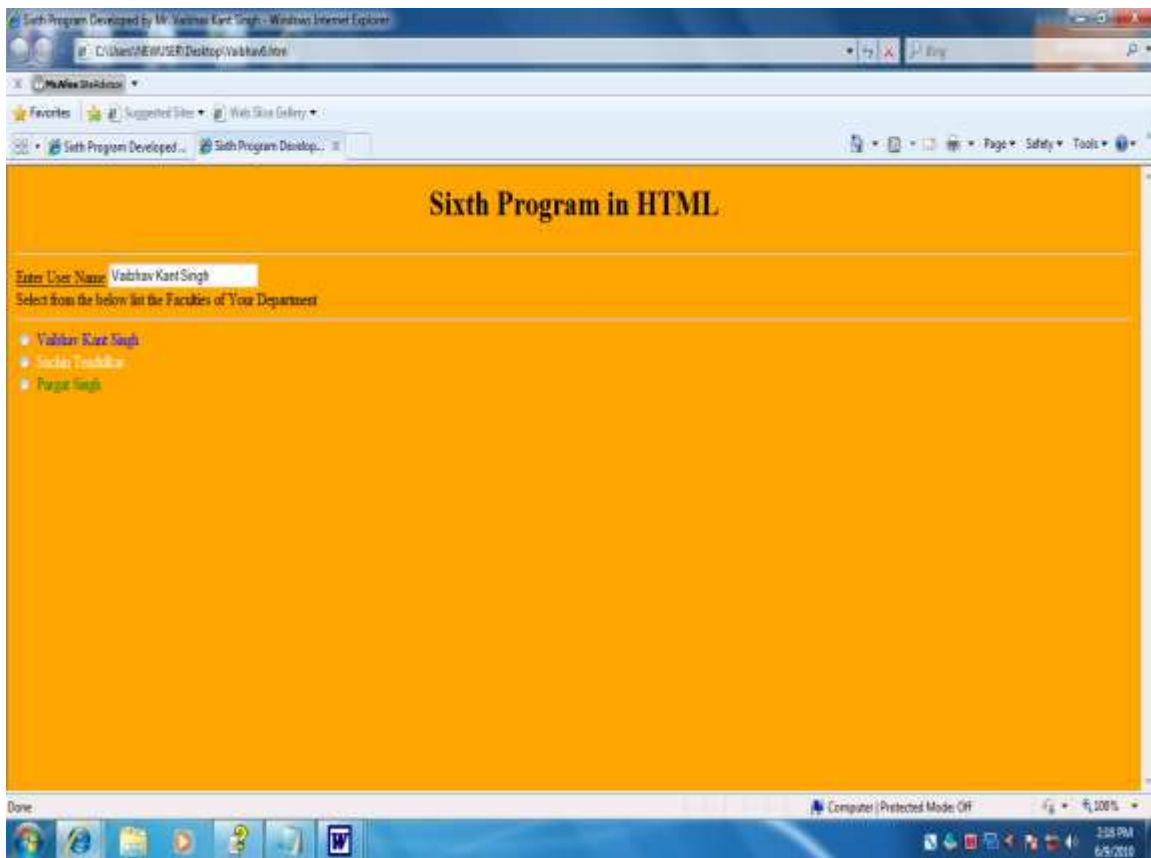


Figure 12:- Output Webpage of Sixth Program[WEBTECHNOLOGY]

Program Number:-7

Aim:-

Write a Program in HTML to display a Button using “Form tag”.

Program Window:-

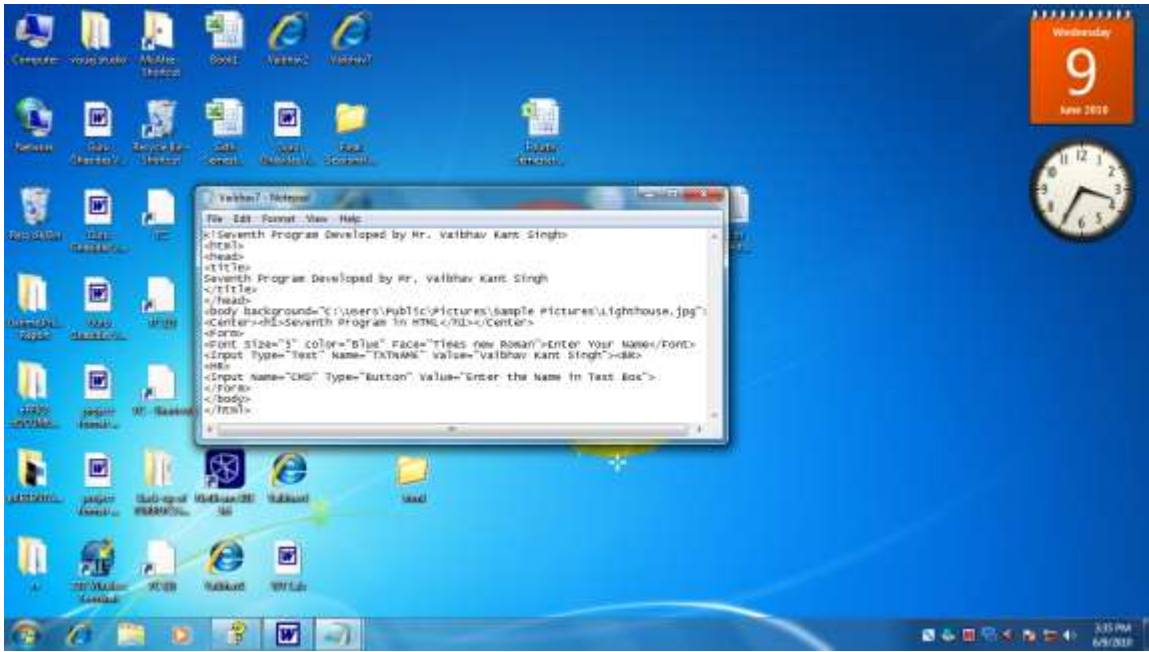


Figure 13:- Program Window of Seventh Program[WEBTECHNOLOGY]

Coding:-

```
<!Seventh Program Developed by Mr. Vaibhav Kant Singh>
<html>
<head>
<title>
Seventh Program Developed by Mr. Vaibhav Kant Singh
</title>
</head>
<body
                                background="C:\Users\Public\Pictures\Sample
                                Pictures\Lighthouse.jpg">
<Center><h1>Seventh Program in HTML</h1></Center>
<Form>
<Font    Size="5"    color="Blue"    Face="Times    new    Roman">Enter    Your
    Name</Font>
<Input Type="Text" Name="TXTNAME" Value="Vaibhav Kant Singh"><BR>
```

```
<HR>
```

```
<Input Name="CMD" Type="Button" Value="Enter the Name in Text Box">
```

```
</Form>
```

```
</body>
```

```
</html>
```

Output:-

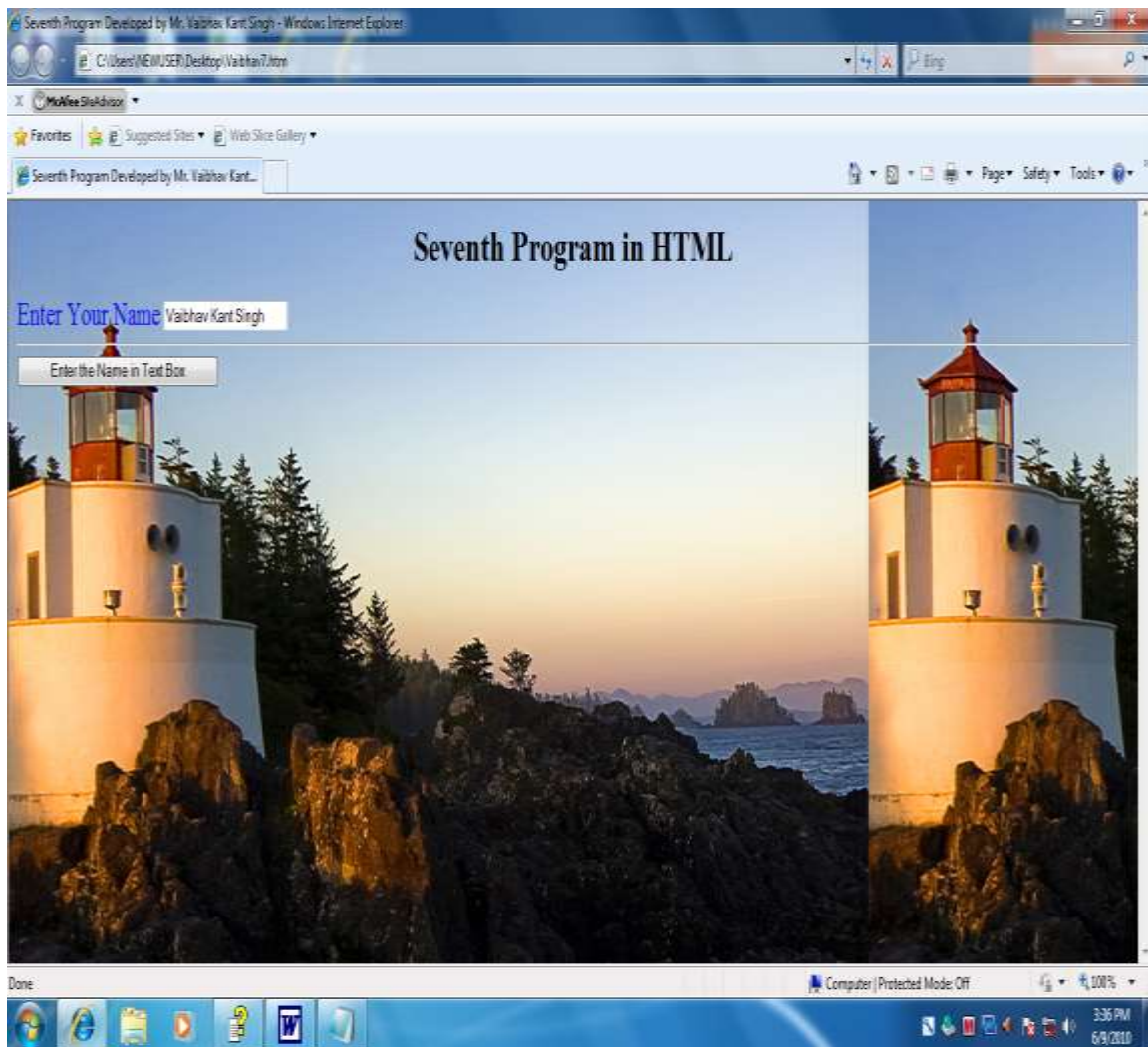


Figure 14:- Output Webpage of Seventh Program[WEBTECHNOLOGY]

Program Number:-8

Aim:-

Write a Program in HTML to display a Check box using “Form tag”.

Program Window:-

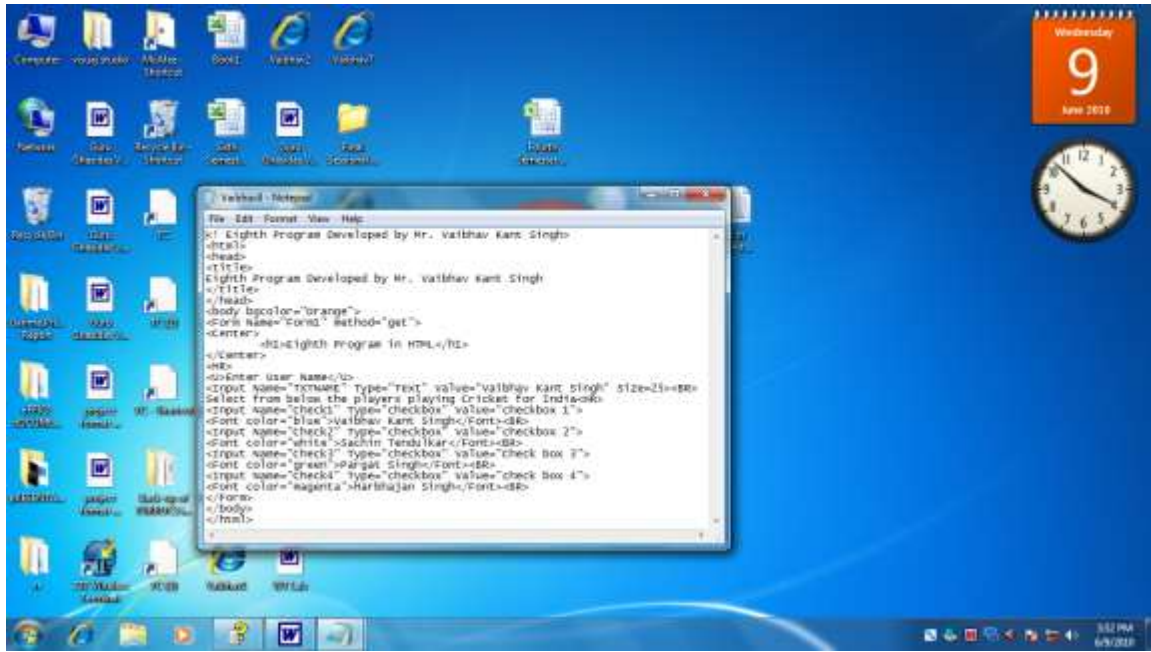


Figure 15:-Program Window of Eighth Program[WEBTECHNOLOGY]

Coding:-

```
<!-- Eighth Program Developed by Mr. Vaibhav Kant Singh -->
<html>
<head>
<title>
Eighth Program Developed by Mr. Vaibhav Kant Singh
</title>
</head>
<body bgcolor="Orange">
<Form Name="Form1" method="get">
<Center>
  <h1>Eighth Program in HTML</h1>
</Center>
<HR>
<U>Enter User Name</U>
```



```

<Input Name="TXTNAME" Type="Text" Value="Vaibhav Kant Singh"
  Size=25><BR>
Select from below the players playing Cricket for India<HR>
<Input Name="Check1" Type="checkbox" Value="checkbox 1">
<Font color="blue">Vaibhav Kant Singh</Font><BR>
<Input Name="Check2" Type="checkbox" Value="checkbox 2">
<Font color="white">Sachin Tendulkar</Font><BR>
<Input Name="Check3" Type="checkbox" Value="Check box 3">
<Font color="green">Pargat Singh</Font><BR>
<Input Name="Check4" Type="checkbox" Value="check box 4">
<Font color="magenta">Harbhajan Singh</Font><BR>
</Form>
</body>
</html>

```

Output:-

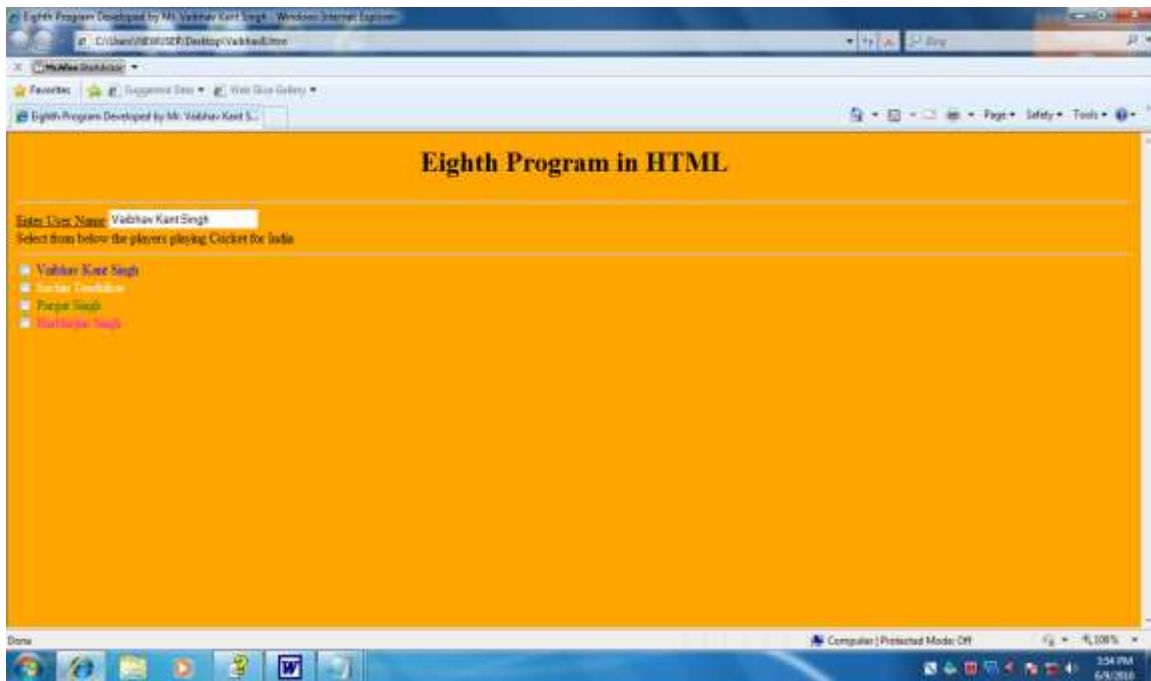


Figure 16:-Output Webpage of Eighth Program[WEBTECHNOLOGY]

Program Number:-9

Aim:-

Write a Program in HTML to display the use of “Text Area Tag”.

Program Window



Figure 17:- Program Window of Ninth Program[WEBTECHNOLOGY]

Coding:-

```

<!--Ninth Program Developed by Mr. Vaibhav Kant Singh>
<Html>
<Head>
<Title>
Ninth Program Developed by Mr. Vaibhav Kant Singh
</Title>
</Head>
<Body>
<Center><Font Size="7" Face="Arial" Color=Red>Ninth Program in
HTML</Font></Center>
<Form Name="Form1">
<TextArea Name="TA" Cols="100" rows="5">
My Name is Vaibhav Kant Singh Faculty Department of Information
Technology ITGGV Bilaspur (C.G.)
  
```



```
</Textarea>  
</Form>  
</Body>  
</Html>
```

Output:-

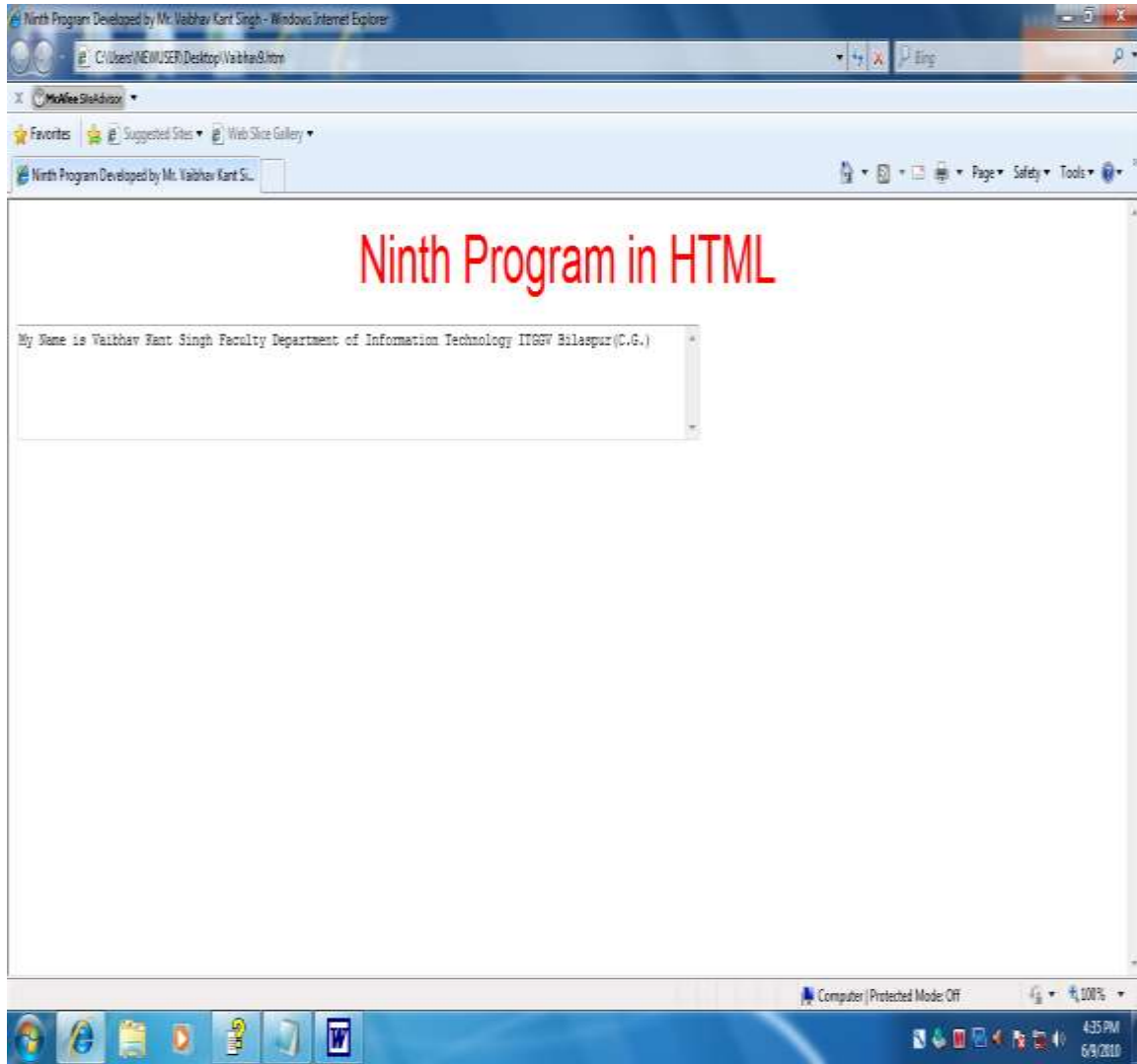


Figure 18:- Output Webpage of Ninth Program[WEBTECHNOLOGY]

Program Number:-10

Aim:-

Write a Program in HTML to display the use of “Select & Option tag”.

And

Prepare an Index Page Containing all the 10 Programs (Using Hyper linking)

Program Window:-

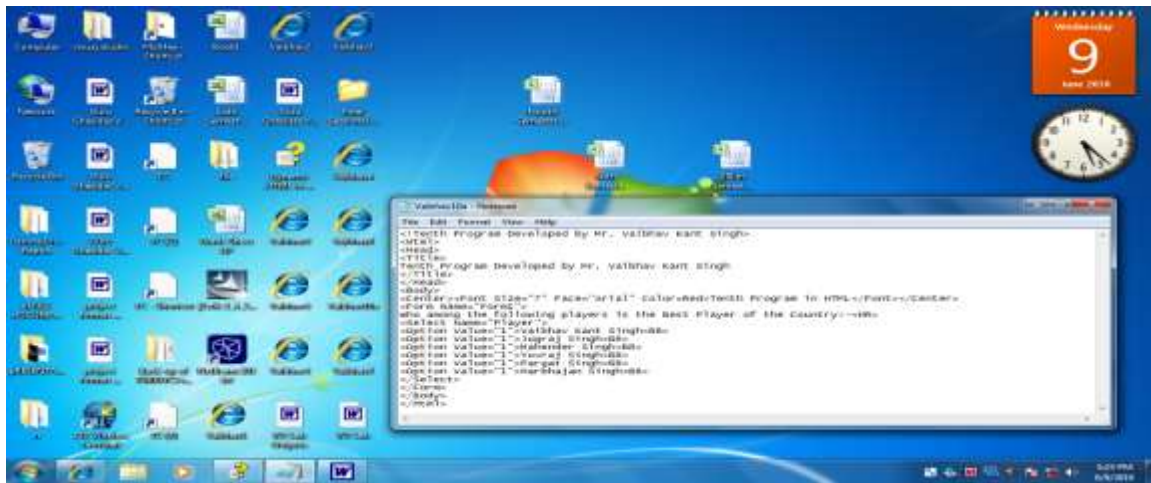


Figure 19:- Program Window of Tenth Program (Part-1) [WEBTECHNOLOGY]

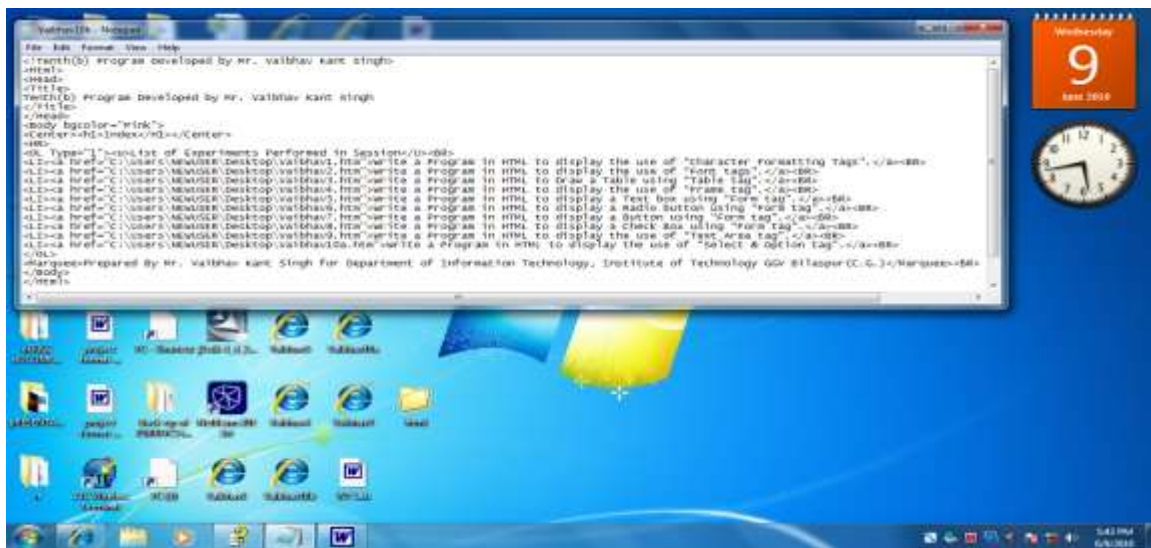


Figure 20:- Program Window of Tenth Program (Part-2) [WEBTECHNOLOGY]

Coding:-

(Part-1)

```
<!Tenth Program Developed by Mr. Vaibhav Kant Singh>
```

```

<Html>
<Head>
<Title>
Tenth Program Developed by Mr. Vaibhav Kant Singh
</Title>
</Head>
<Body>
<Center><Font    Size="7"    Face="Arial"    Color=Red>Tenth    Program    in
    HTML</Font></Center>
<Form Name="Form1">
Who among the following players is the Best Player of the Country:-<HR>
<Select Name="Player">
<Option Value="1">Vaibhav Kant Singh<BR>
<Option Value="1">Jugraj Singh<BR>
<Option Value="1">Mahender Singh<BR>
<Option Value="1">Yuvraj Singh<BR>
<Option Value="1">Pargat Singh<BR>
<Option Value="1">Harbhajan Singh<BR>
</Select>
</Form>
</Body>
</Html>

```

(Part-2)

```

<!--Tenth(b) Program Developed by Mr. Vaibhav Kant Singh-->
<Html>
<Head>
<Title>
Tenth(b) Program Developed by Mr. Vaibhav Kant Singh
</Title>
</Head>
<Body bgcolor="Pink">
<Center><h1>Index</H1></Center>
<HR>
<OL Type="1"><u>List of Experiments Performed in Session</U><BR>

```

```
<LI><a href="C:\Users\NEWUSER\Desktop\Vaibhav1.htm">Write a Program in
HTML to display the use of "Character Formatting Tags".</a><BR>
<LI><a href="C:\Users\NEWUSER\Desktop\Vaibhav2.htm">Write a Program in
HTML to display the use of "Font tags".</a><BR>
<LI><a href="C:\Users\NEWUSER\Desktop\Vaibhav3.htm">Write a Program in
HTML to Draw a Table using "Table tag".</a><BR>
<LI><a href="C:\Users\NEWUSER\Desktop\Vaibhav4.htm">Write a Program in
HTML to display the use of "Frame tag".</a><BR>
<LI><a href="C:\Users\NEWUSER\Desktop\Vaibhav5.htm">Write a Program in
HTML to display a Text box using "Form tag".</a><BR>
<LI><a href="C:\Users\NEWUSER\Desktop\Vaibhav6.htm">Write a Program in
HTML to display a Radio button using "Form tag".</a><BR>
<LI><a href="C:\Users\NEWUSER\Desktop\Vaibhav7.htm">Write a Program in
HTML to display a Button using "Form tag".</a><BR>
<LI><a href="C:\Users\NEWUSER\Desktop\Vaibhav8.htm">Write a Program in
HTML to display a Check Box using "Form tag".</a><BR>
<LI><a href="C:\Users\NEWUSER\Desktop\Vaibhav9.htm">Write a Program in
HTML to display the use of "Text Area tag".</a><BR>
<LI><a href="C:\Users\NEWUSER\Desktop\Vaibhav10a.htm">Write a Program in
HTML to display the use of "Select & Option tag".</a><BR>
</OL>
<Marquee>Prepared By Mr. Vaibhav Kant Singh for Department of
Information Technology, Institute of Technology GGV
Bilaspur (C.G.)</Marquee><BR>
</Body>
</Html>
```

Output:-



Figure 21:- Output Webpage of Tenth Program (Part-1) [WEBTECHNOLOGY]



Figure 22:- Output Webpage of Tenth Program (Part-2) [WEBTECHNOLOGY]

C Programming Lab

Text Books:-

1. E. Balagugusamy, “Programming in ANSI C”, TMH Publication.

Program Number:-1

Aim: -

Write a Program in C for “Conversion of temperature from Fahrenheit to Centigrade”.

Program Window

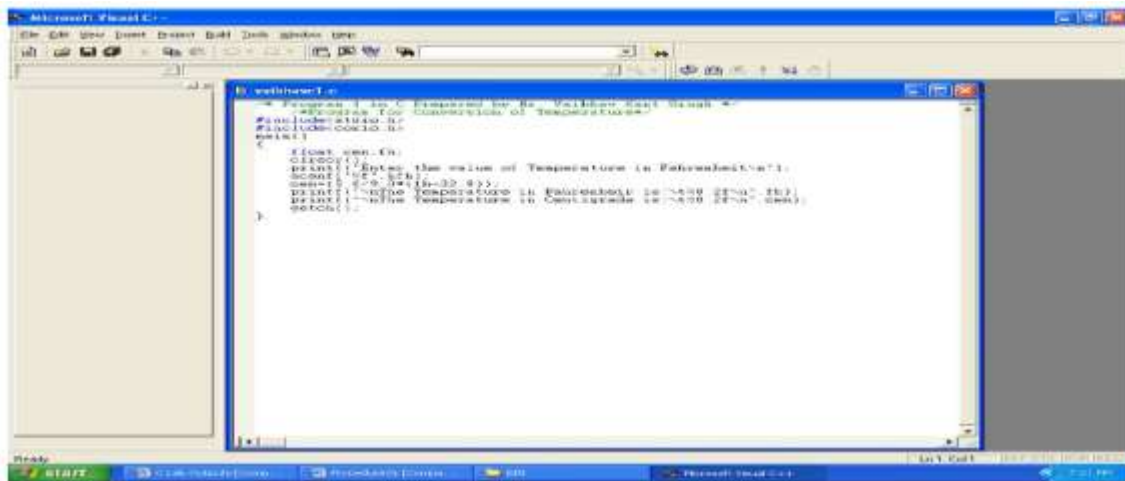


Figure 23:- Program Window for First program[C PROGRAMMING]

Coding:-

```

/* Program 1 in C Prepared by Mr. Vaibhav Kant Singh */
/*Program for Conversion of Temperature*/
#include<stdio.h>
#include<conio.h>
main()
{
    float cen,fh;
    clrscr();
    printf("Enter the value of Temperature in Fahrenheit\n");
    scanf("%f",&fh);
    cen=(5.0/9.0*(fh-32.0));
  
```



```

printf("\nThe Temperature in Fahrenheit is:\t%8.2f\n",fh);
printf("\nThe Temperature in Centigrade is:\t%8.2f\n",cen);
getch();
}

```

Input:-



Figure 24:- Input of First Program[C PROGRAMMING]

Output:-

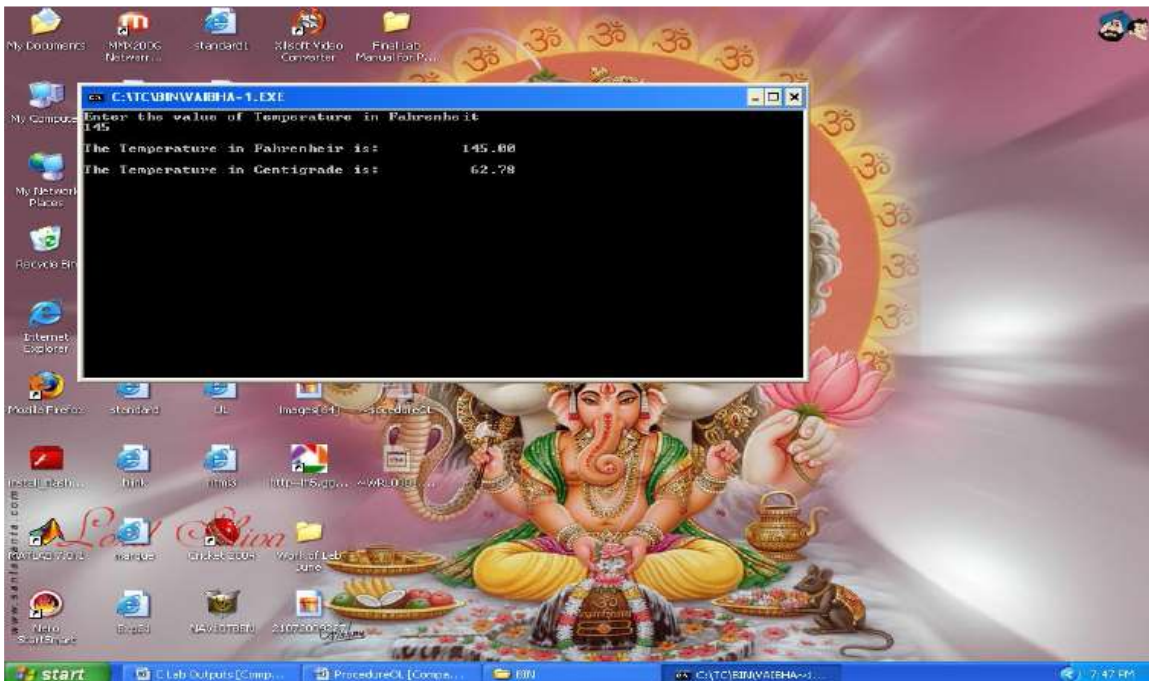


Figure 25:- Output of for First Program[C PROGRAMMING]

Program Number:-2

Aim:-

Write a Program in C for “Finding Area of a Rectangle”.

Program Window:-

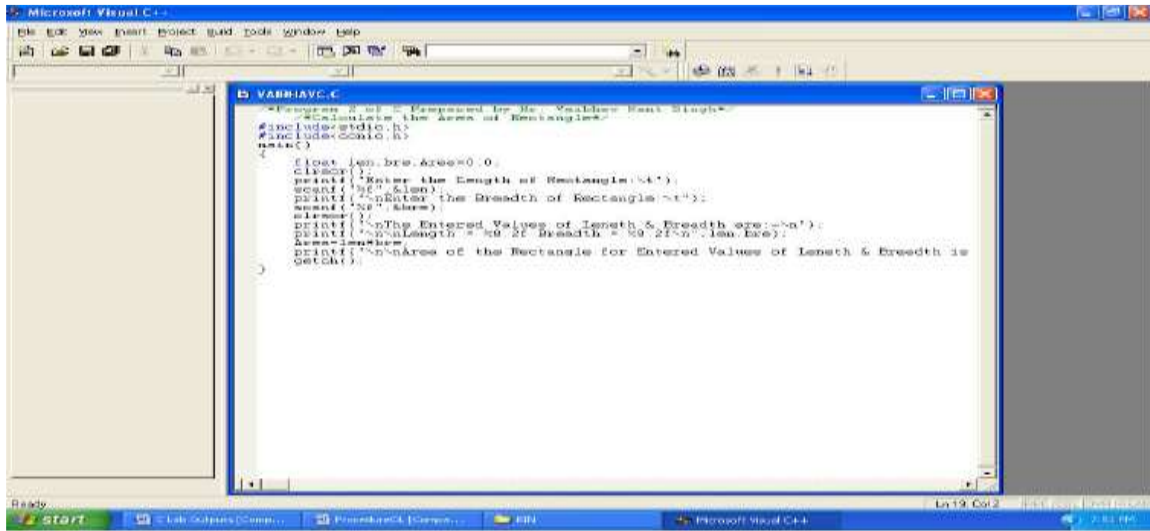


Figure 26:- Program Window for Second program[C PROGRAMMING]

Coding:-

/*Program 2 of C Prepared byMr. Vaibhav Kant Singh*/

/*Calculate the Area of Rectangle*/

#include<stdio.h>

#include<conio.h>

main()

{

float len,bre,Area=0.0;

clrscr();

printf("Enter the Length of Rectangle:\t");

scanf("%f",&len);

printf("\nEnter the Breadth of Rectangle:\t");

scanf("%f",&bre);

clrscr();

printf("\nThe Entered Values of Length & Breadth are:-\n");

```
printf("\n\nLength = %8.2f Breadth = %8.2f\n",len,bre);
Area=len*bre;
printf("\n\nArea of the Rectangle for Entered Values of Length & Breadth
is %8.2f \t",Area);
getch();
}
```

Program Number:-3

Aim:-

Write a Program in C to “Evaluate the polynomial $5x^2-5x+9$ ”.

Program Window:-

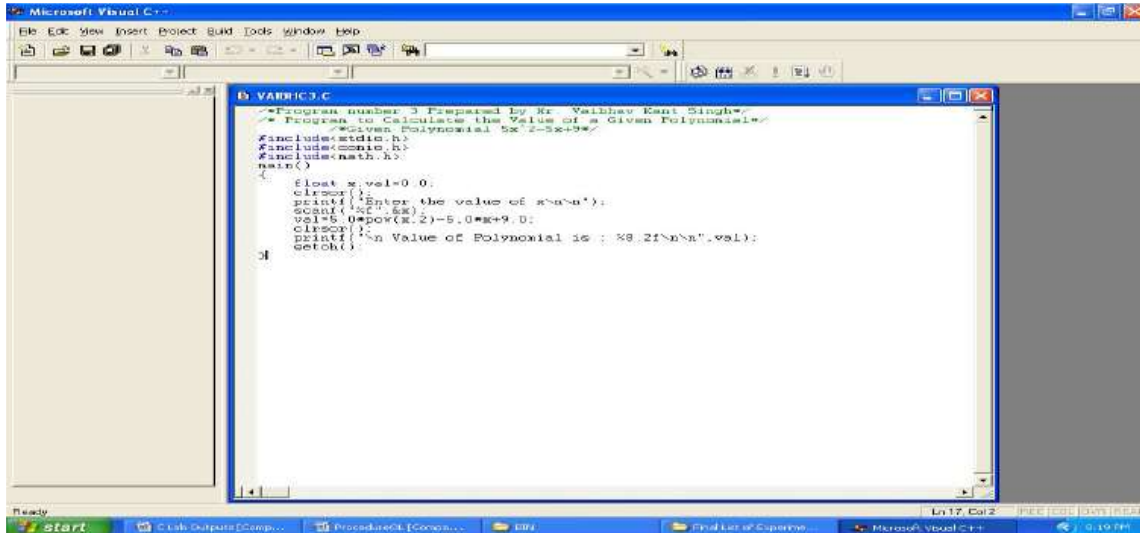


Figure 29:- Program Window for Third Program[C PROGRAMMING]

Coding:-

```
/*Program number 3 Prepared byMr. Vaibhav Kant Singh*/
```

```
/* Program to Calculate the Value of a Given Polynomial*/
```

```
/*Given Polynomial  $5x^2-5x+9$ */
```

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
#include<math.h>
```

```
main()
```

```
{
```

```
    float x,val=0.0;
```

```
    clrscr();
```

```
    printf("Enter the value of x\n\n");
```

```
    scanf("%f",&x);
```

```
    val=5.0*pow(x,2)-5.0*x+9.0;
```

```
    clrscr();
```

```

printf("\n Value of Polynomial is : %8.2f\n\n",val);
getch();
}

```

Input:-

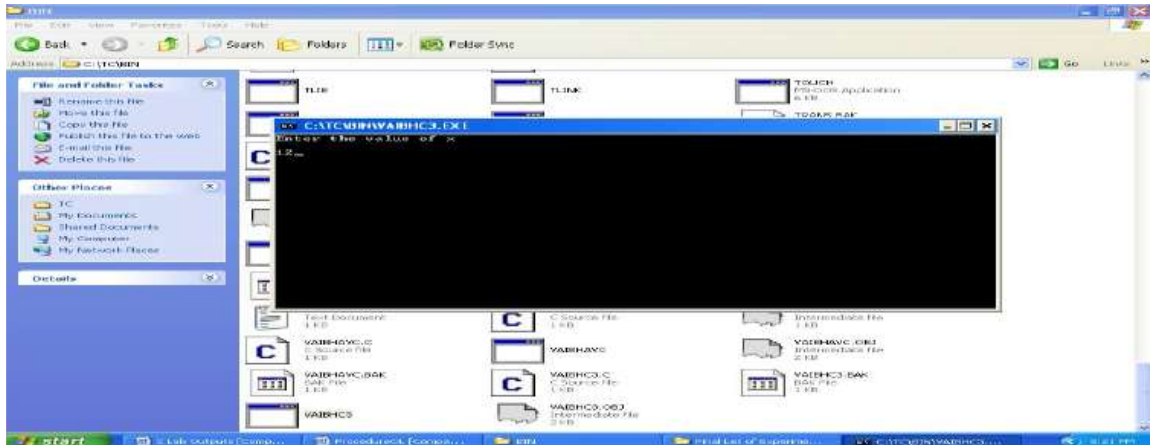


Figure 30:- Input for Third program[C PROGRAMMING]

Output:-

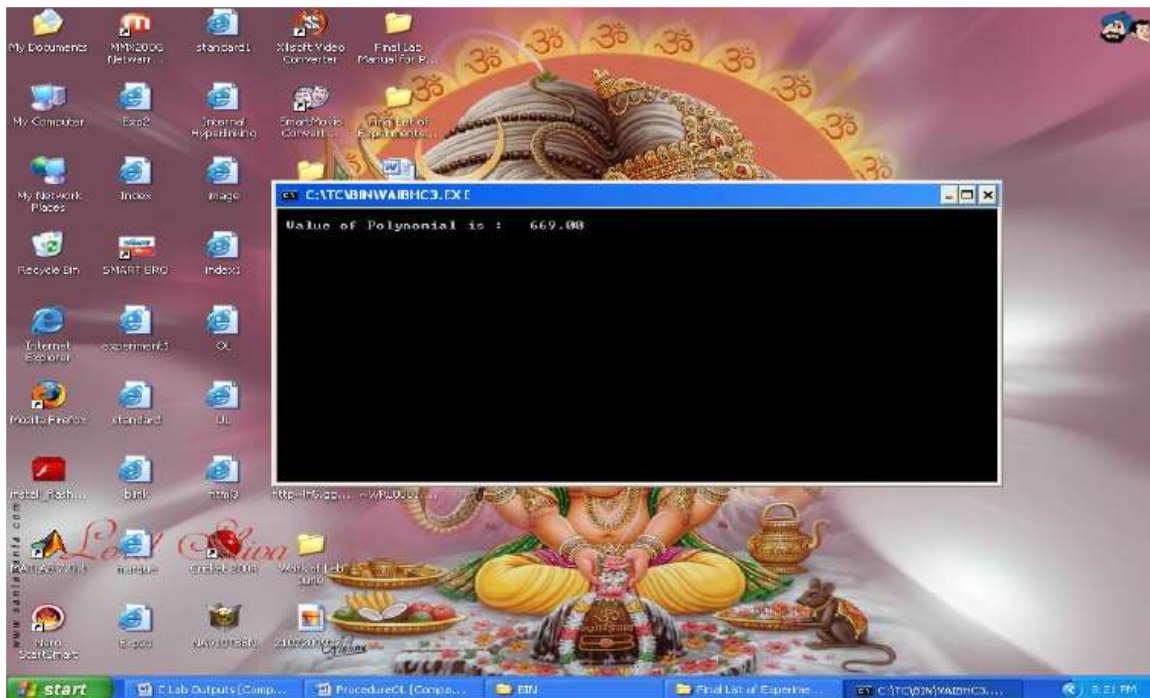


Figure 31:- Output for Third[C PROGRAMMING]

Program Number:-4

Aim:-

Write a Program in C to “Check an integer for perfect square”.

Program Window:-

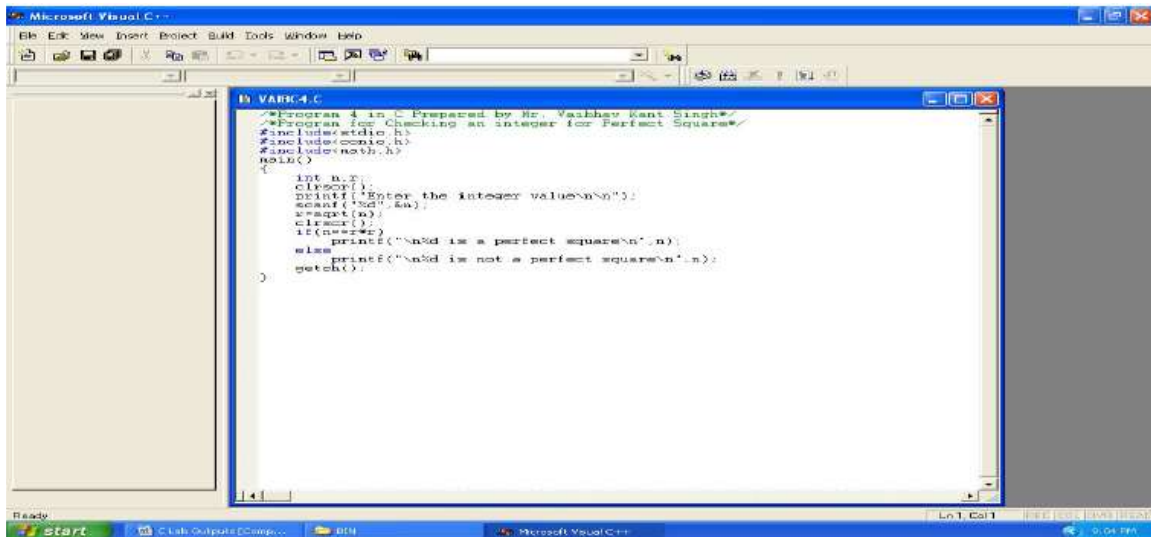


Figure 32:- Program Window for Fourth Program[C PROGRAMMING]

Coding:-

```
/*Program 4 in C Prepared by Mr. Vaibhav Kant Singh*/
```

```
/*Program for Checking an integer for Perfect Square*/
```

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
#include<math.h>
```

```
main()
```

```
{
```

```
    int n,r;
```

```
    clrscr();
```

```
    printf("Enter the integer value\n\n");
```

```
    scanf("%d",&n);
```

```
    r=sqrt(n);
```

```
    clrscr();
```

```
    if(n==r*r)
```


Program Number:-5

Aim:-

Write a Program in C to “Print the weekday using else-if”.

Program Window:-

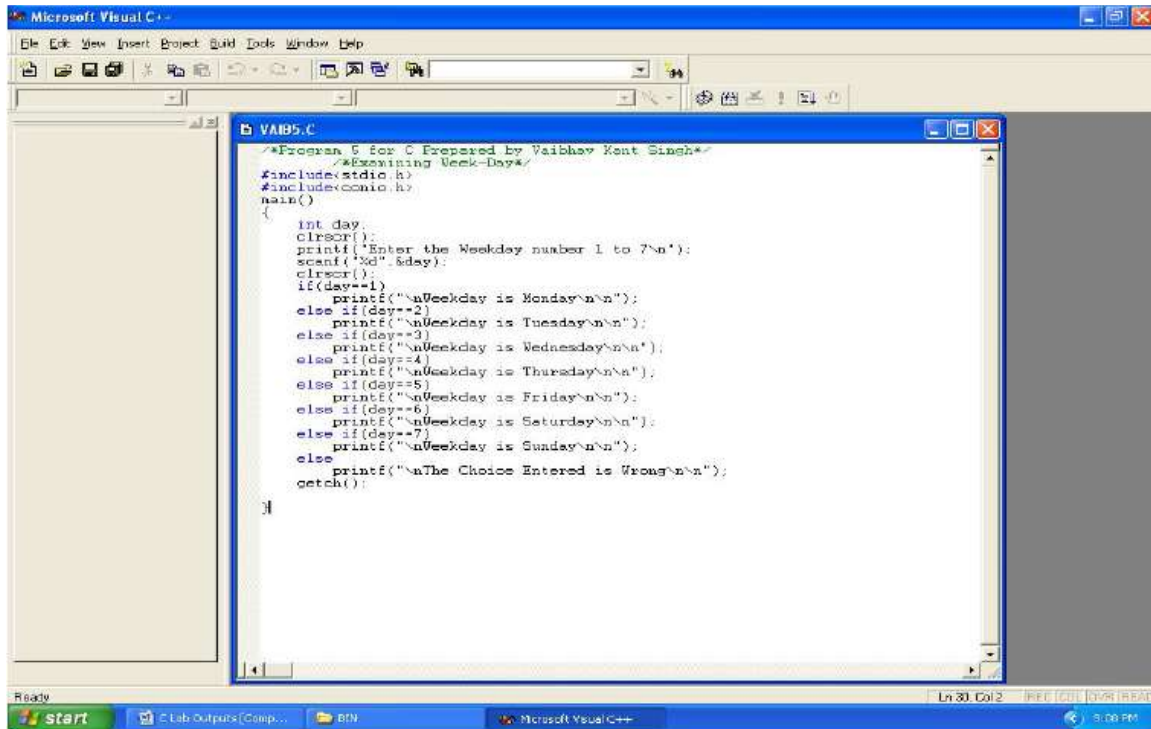


Figure 35:- Program Window of Fifth Program[C PROGRAMMING]

Coding:-

```
/*Program 5 for C Prepared by Vaibhav Kant Singh*/
```

```
/*Examining Week-Day*/
```

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
main()
```

```
{
```

```
    int day;
```

```
    clrscr();
```

```
    printf("Enter the Weekday number 1 to 7\n");
```

```
    scanf("%d",&day);
```

```

clrscr();
if(day==1)
    printf("\nWeekday is Monday\n\n");
else if(day==2)
    printf("\nWeekday is Tuesday\n\n");
else if(day==3)
    printf("\nWeekday is Wednesday\n\n");
else if(day==4)
    printf("\nWeekday is Thursday\n\n");
else if(day==5)
    printf("\nWeekday is Friday\n\n");
else if(day==6)
    printf("\nWeekday is Saturday\n\n");
else if(day==7)
    printf("\nWeekday is Sunday\n\n");
else
    printf("\nThe Choice Entered is Wrong\n\n");
getch();
}

```

Input:-

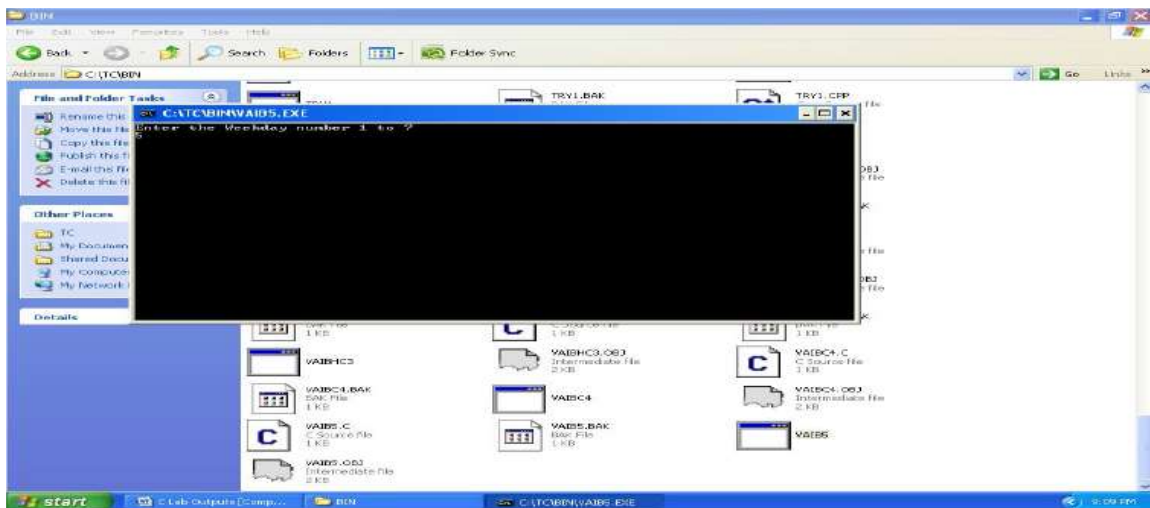


Figure 36:- Output Webpage of Fifth Program[C PROGRAMMING]

Output:-

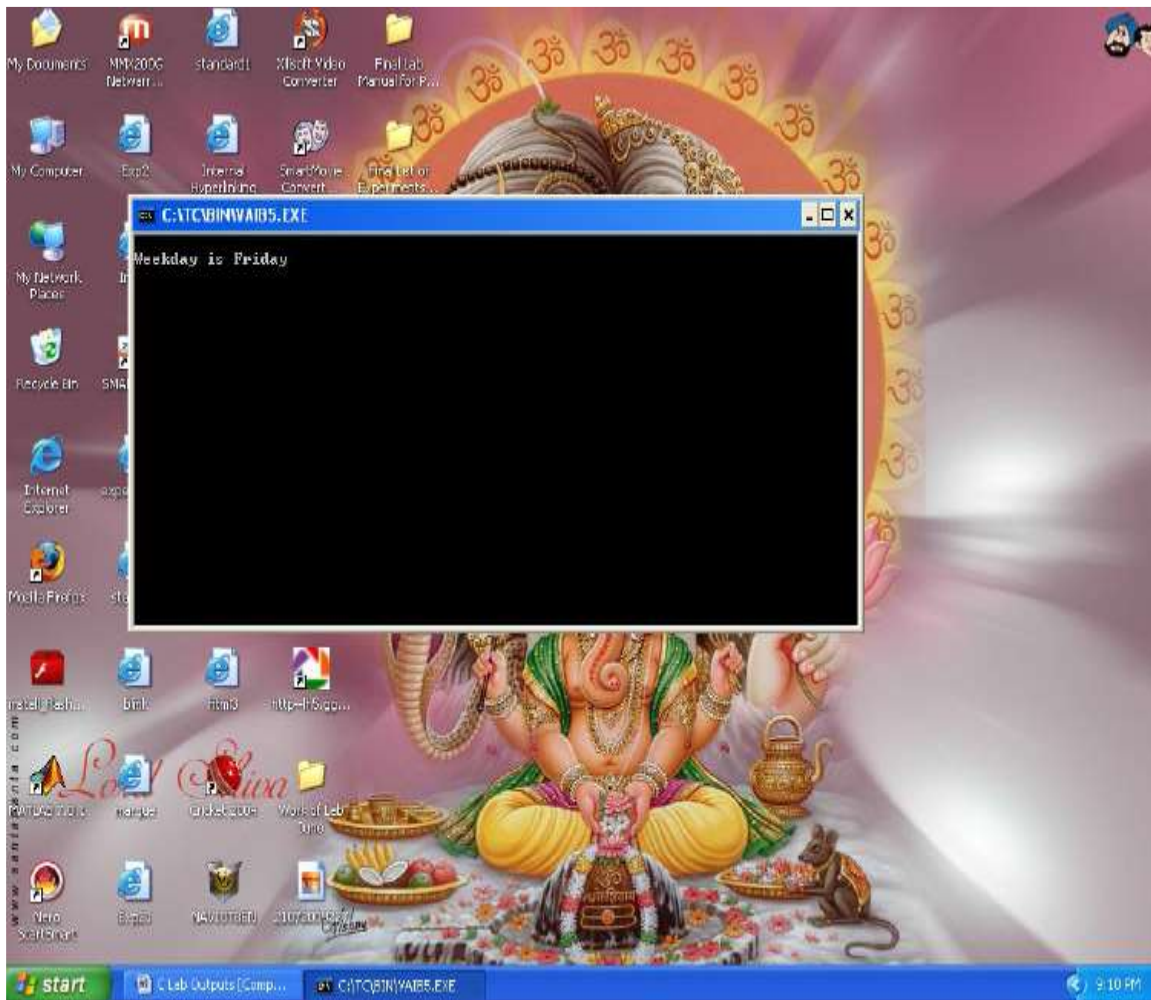


Figure 37:- Output Webpage of Fifth Program[C PROGRAMMING]

Program Number:-6

Aim:-

Write a Program in C to “Check whether a number is Armstrong or not”.

Program Window:-

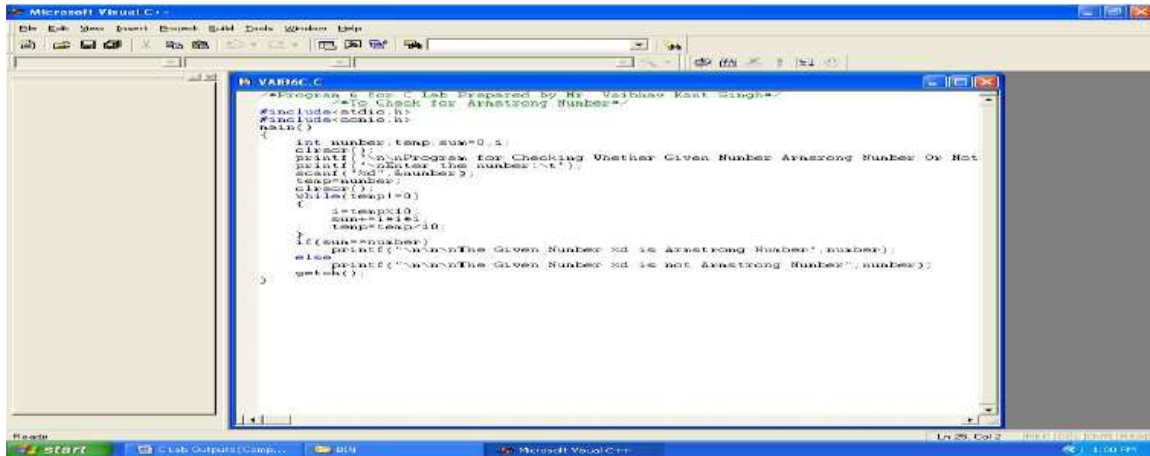


Figure 38:- Program Window for Sixth program[C PROGRAMMING]

Coding:-

/*Program 6 for C Lab Prepared byMr. Vaibhav Kant Singh*/

/*To Check for Armstrong Number*/

#include<stdio.h>

#include<conio.h>

main()

{

int number,temp,sum=0,i;

clrscr();

printf("\n\nProgram for Checking Whether Given Number Armsrong Number Or Not\n\n");

printf("\nEnter the number:\t");

scanf("%d",&number);

temp=number;

clrscr();

while(temp!=0)

```
{  
    i=temp%10;  
    sum+=i*i*i;  
    temp=temp/10;  
}  
if(sum==number)  
    printf("\n\nThe Given Number %d is Armstrong Number",number);  
else  
    printf("\n\nThe Given Number %d is not Armstrong Number",number);  
getch();  
}
```

Input:-

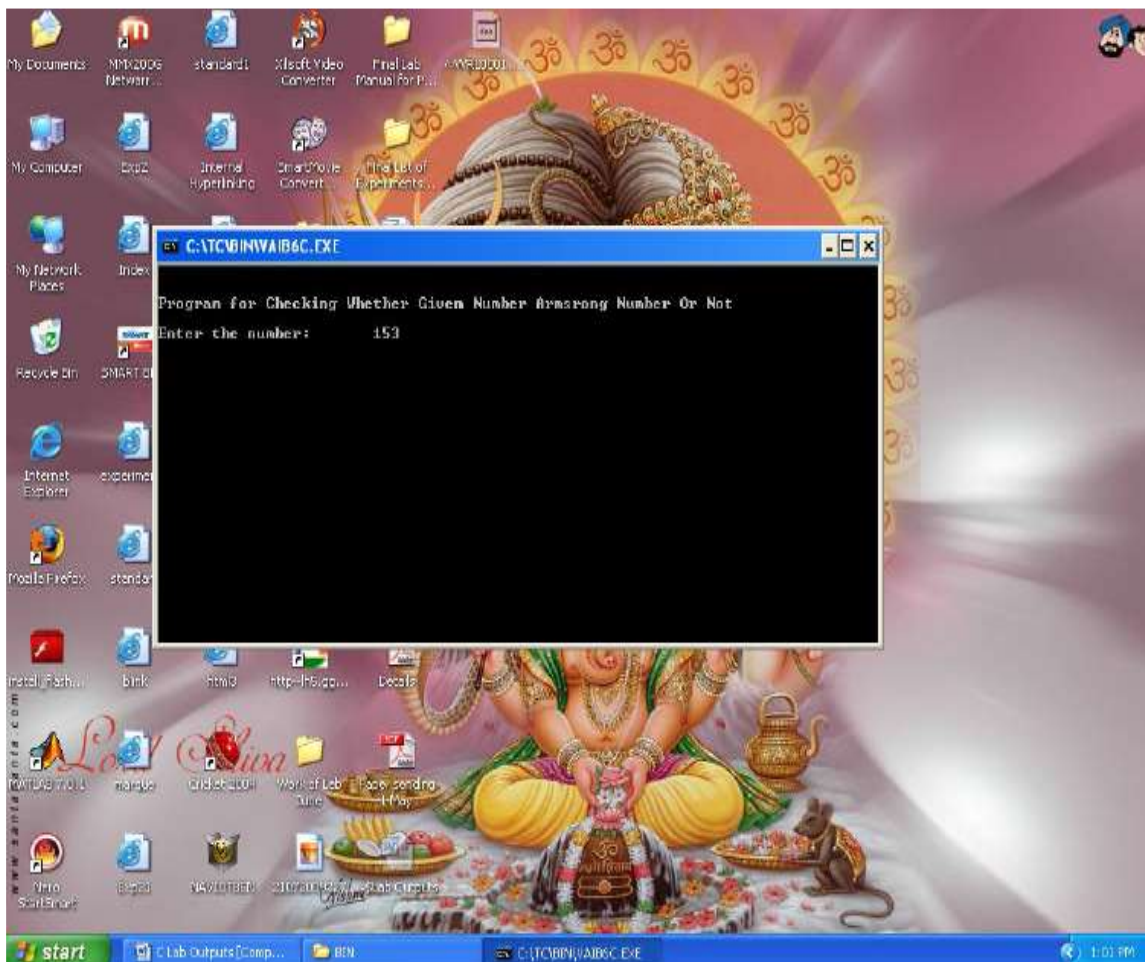


Figure 39:- Input for Sixth program[C PROGRAMMING]

Output:-

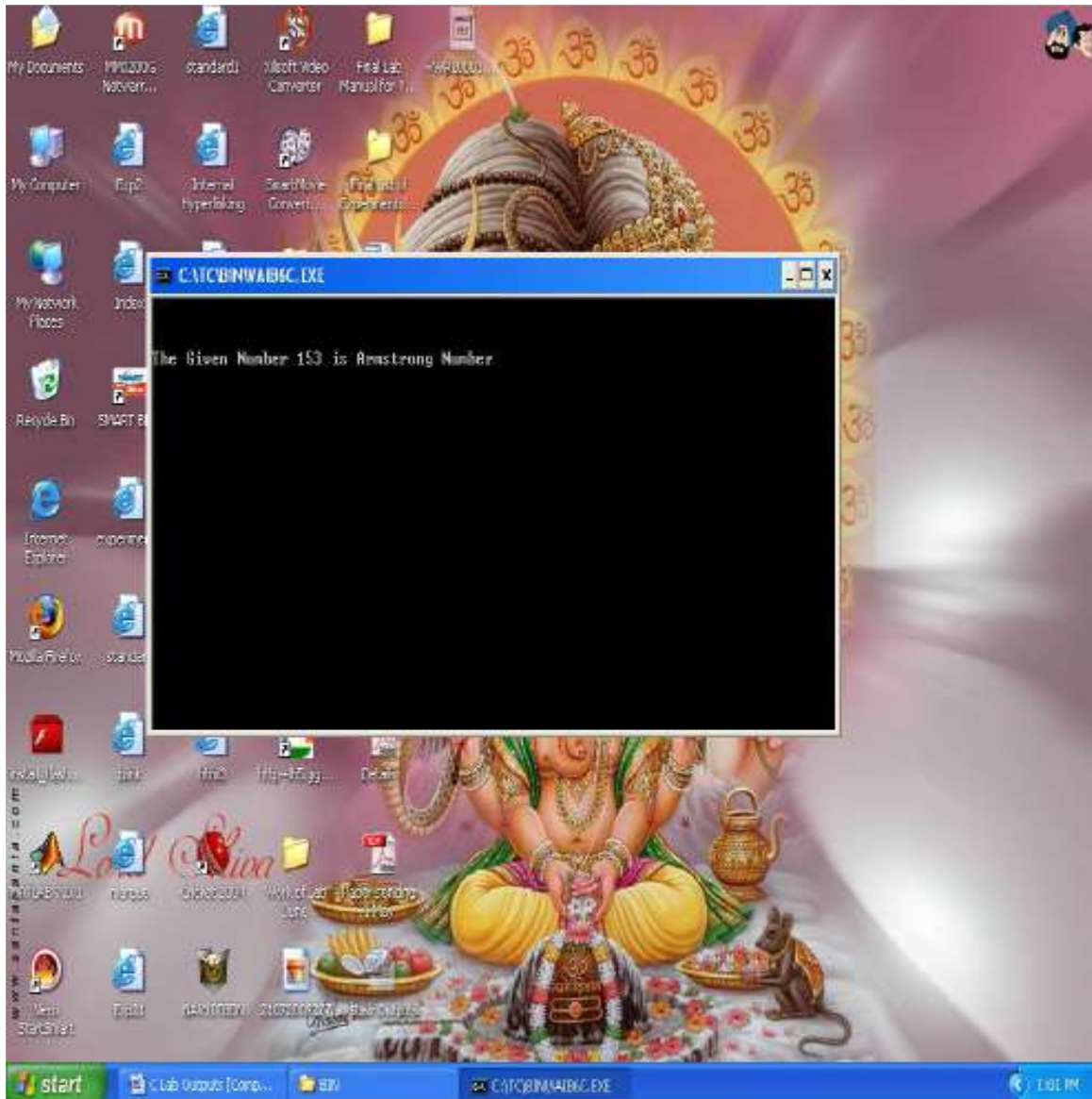


Figure 40:- Output for Sixth program[C PROGRAMMING]

Program Number:-7

Aim:-

Write a Program in C to “Find the factorial of a given number”.

Program Window:-

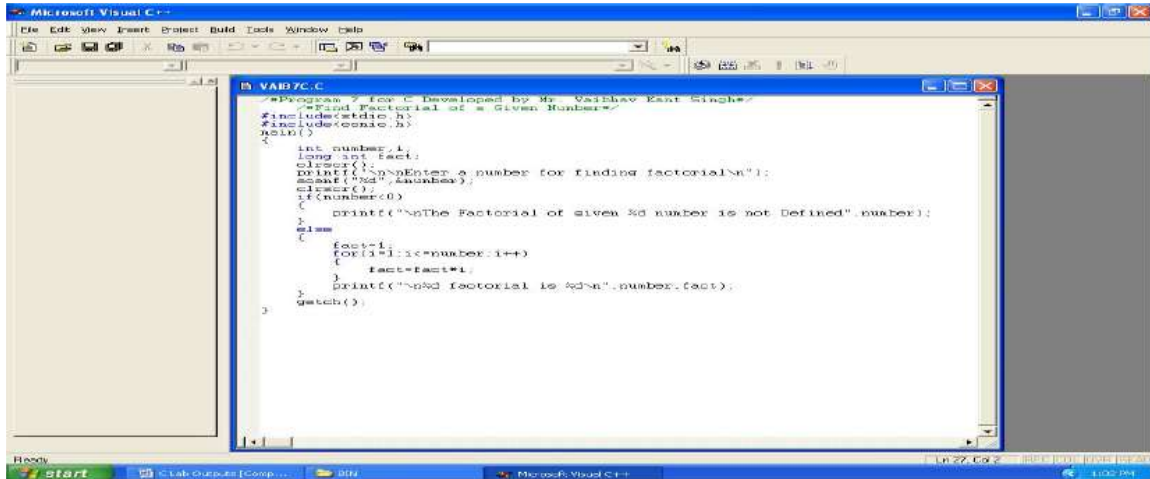


Figure 41:- Program Window for Seventh program[C PROGRAMMING]

Coding:-

/*Program 7 for C Developed by Mr. Vaibhav Kant Singh*/

/*Find Factorial of a Given Number*/

#include<stdio.h>

#include<conio.h>

main()

{

int number,i;

long int fact;

clrscr();

printf("\n\nEnter a number for finding factorial\n");

scanf("%d",&number);

clrscr();

if(number<0)

{

printf("\nThe Factorial of given %d number is not Defined",number);


```

    }
else
{
    fact=1;
    for(i=1;i<=number;i++)
    {
        fact=fact*i;
    }
    printf("\n%d factorial is %d\n",number,fact);
}
getch();
}

```

Input:-

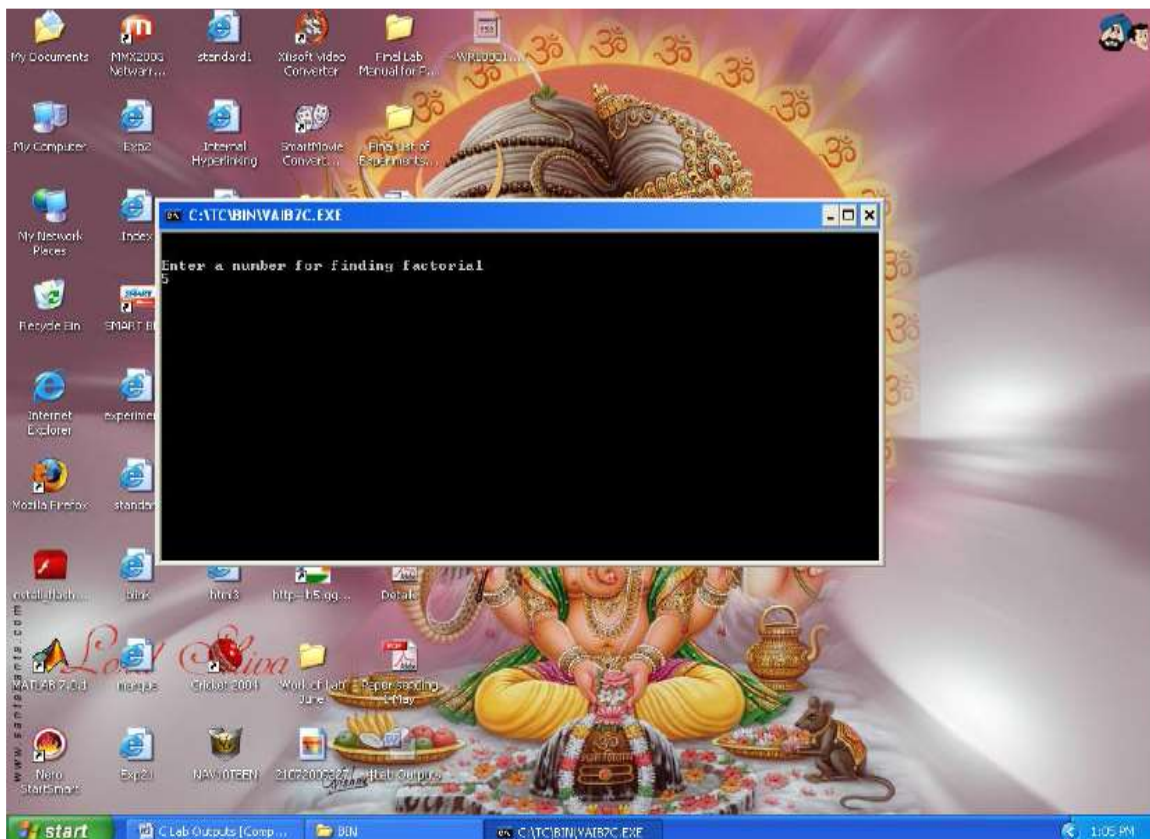


Figure 42:- Input for Seventh program[C PROGRAMMING]

Output:-

Program Number:-8

Aim:-

Write a Program in C to “Check whether a number represent a Fibonacci series or not”.

Program Window:-

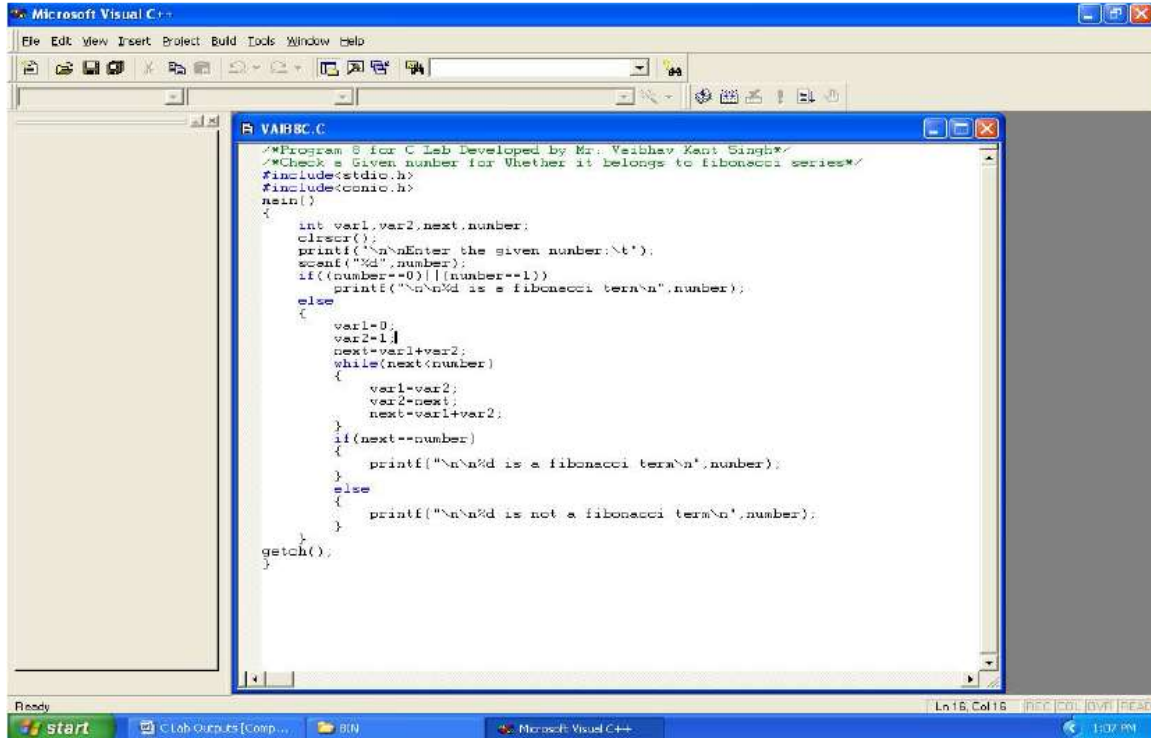


Figure 44:- Program Window for Eighth program[C PROGRAMMING]

Coding:-

```
/*Program 8 for C Lab Developed by Mr. Vaibhav Kant Singh*/
```

```
/*Check a Given number for Whether it belongs to fibonacci series*/
```

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
main()
```

```
{
```

```
    int var1,var2,next,number;
```

```
    clrscr();
```

```
    printf("\n\nEnter the given number:\t");
```

```
scanf("%d",number);
if((number==0)|| (number==1))
    printf("\n\n%d is a fibonacci term\n",number);
else
{
    var1=0;
    var2=1;
    next=var1+var2;
    while(next<number)
    {
        var1=var2;
        var2=next;
        next=var1+var2;
    }
    if(next==number)
    {
        printf("\n\n%d is a fibonacci term\n",number);
    }
    else
    {
        printf("\n\n%d is not a fibonacci term\n",number);
    }
}
getch();
}
```

Input:-

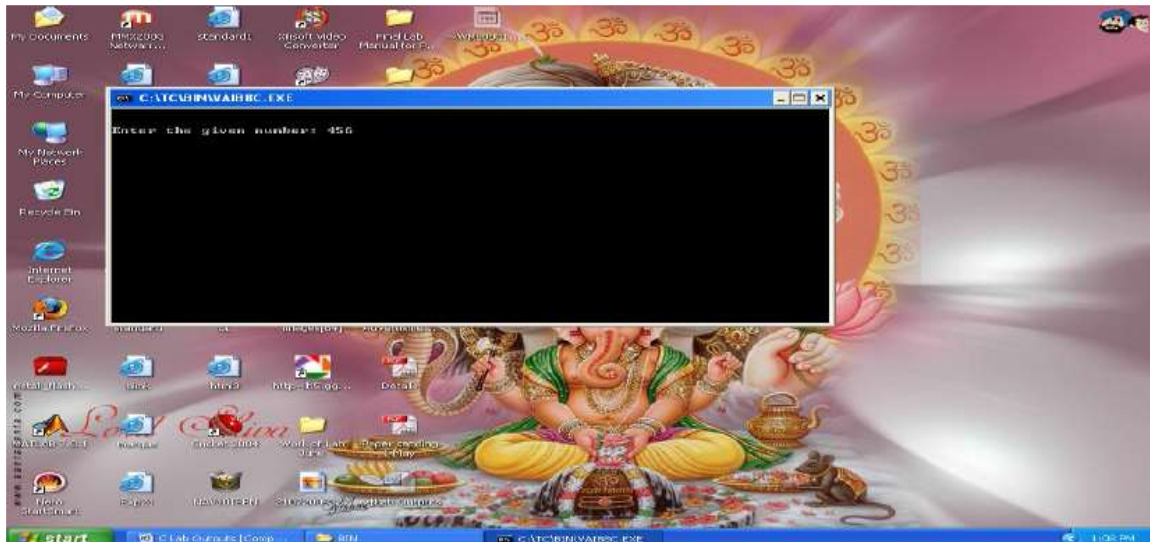


Figure 45:- Input for Eighth program[C PROGRAMMING]

Output:-

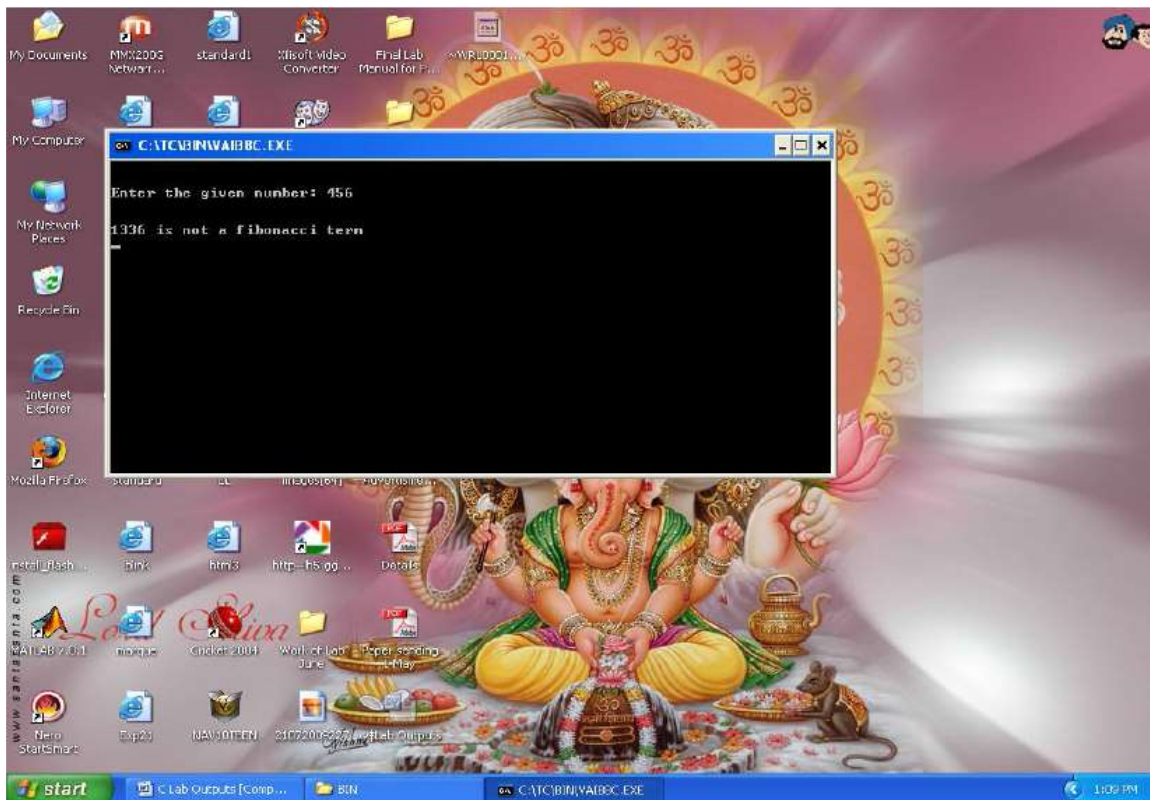


Figure 46:- Output for Eighth program[C PROGRAMMING]

Program Number:-9

Aim:-

Write a Program in C to “Reverse a given Array”.

Program Window:-

```

Microsoft Visual C++
File Edit View Insert Project Build Tools Window Help

VAD9C.C
/*Program 9 for C Lab Developed by Mr. Vaibhav Kant Singh*/
/*Reverse a Given Array*/
#include<stdio.h>
#include<conio.h>
#define str 25
main()
{
    float var[str],temp;
    int i,x,mid;
    clrscr();
    printf("Enter the number of Elements in the Given Array %d\n",str);
    scanf("%d",&x);
    printf("\nEnter %d Elements of Array \n\n",x);
    clrscr();
    for(i=0;i<x;i++)
        scanf("%f",&var[i]);
    printf("\nGiven array is\n\n");
    for(i=0;i<x;i++)
        printf("%8.2f",var[i]);
    mid=x/2;
    /*For Loop Coming Next for Reversing the String*/
    for(i=0;i<mid;i++)
    {
        temp=var[i];
        var[i]=var[x-1-i];
        var[x-1-i]=temp;
    }
    printf("\nReverse the Given Array\n\n");
    for(i=0;i<x;i++)
    {
        printf("%8.2f",var[i]);
    }
    getch();
}

```

Figure 47:- Program Window for Ninth program[C PROGRAMMING]

Coding:-

```
/*Program 9 for C Lab Developed by Mr. Vaibhav Kant Singh*/
```

```
/*Reverse a Given Array*/
```

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
#define str 25
```

```
main()
```

```
{
```

```
    float var[str],temp;
```

```

int i,x,mid;
clrscr();
printf("Enter the number of Elements in the Given Array %d\n",str);
scanf("%d",&x);
printf("\nEnter %d Elements of Array \n\n",x);
clrscr();
for(i=0;i<x;i++)
    scanf("%f",&var[i]);
printf("\nGiven array is\n\n");
for(i=0;i<x;i++)
    printf("%8.2f",var[i]);
mid=x/2;
/*For Loop Comming Next for Reversing the String*/
for(i=0;i<mid;i++)
{
    temp=var[i];
    var[i]=var[x-1-i];
    var[x-1-i]=temp;
}
printf("\nReverse the Given Array\n\n");
for(i=0;i<x;i++)
{
    printf("%8.2f",var[i]);
}
getch();
}

```

Input:-

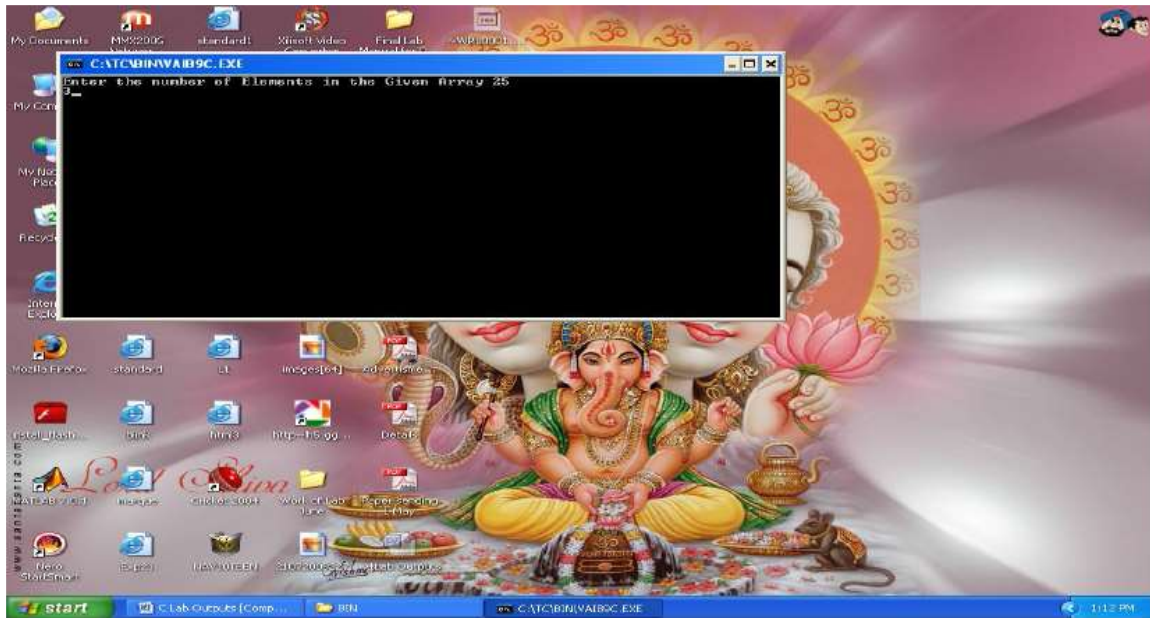


Figure 48 (A):- Input for Ninth program[C PROGRAMMING]

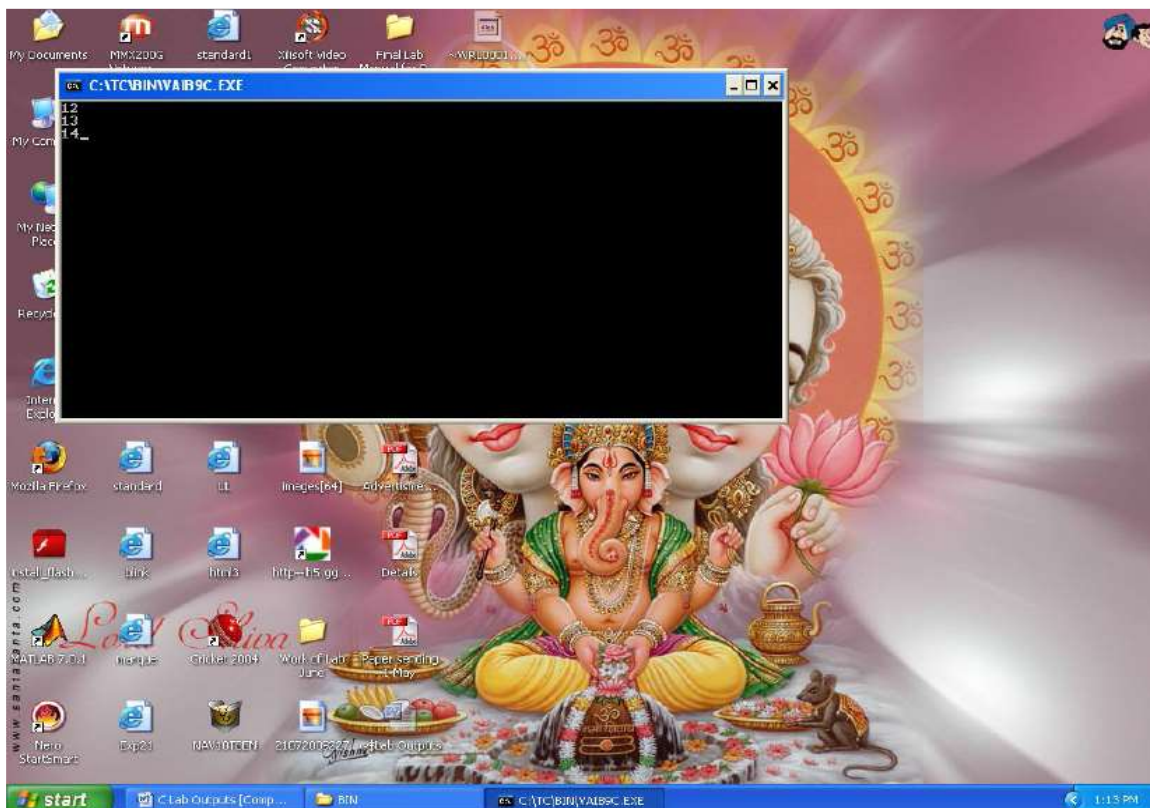


Figure 48(B):- Input for Ninth program[C PROGRAMMING]

Output:-



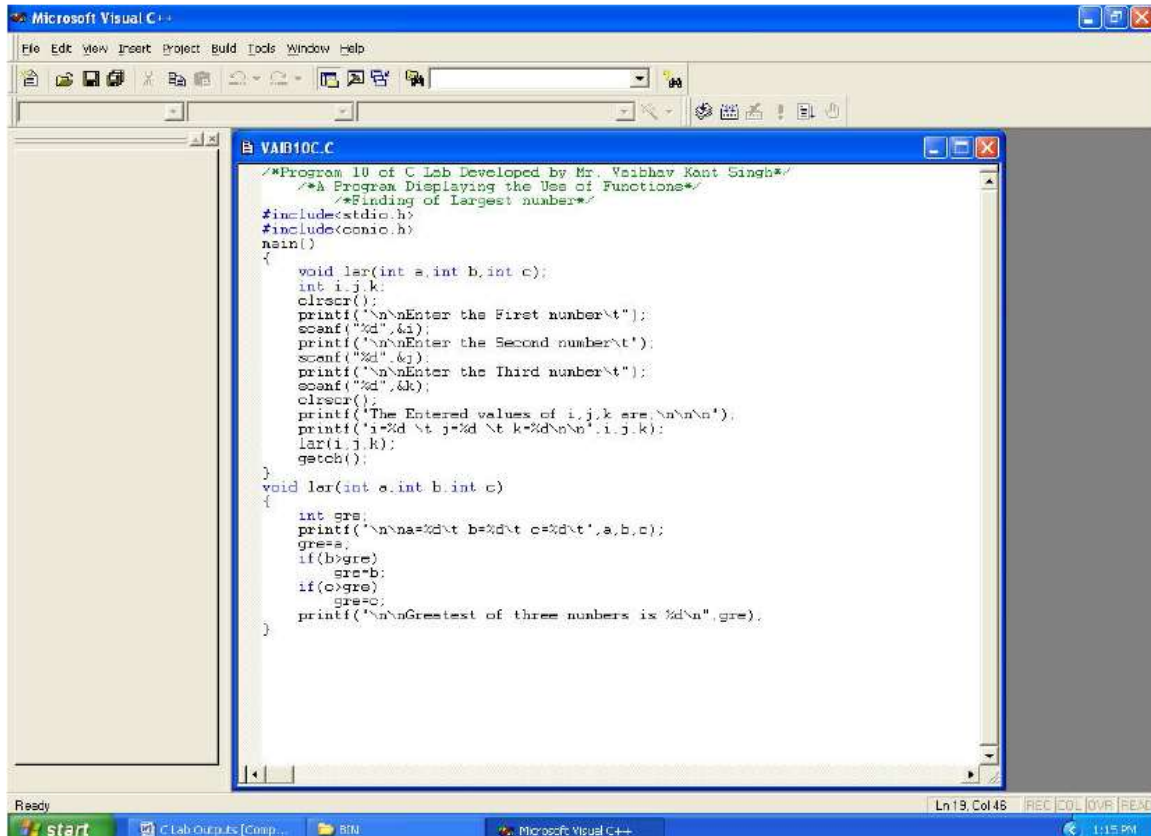
Figure 49:- Output for Ninth program[C PROGRAMMING]

Program Number:-10

Aim:-

Write a Program in C using functions to “Find the greatest of three given numbers”.

Program Window:-



```

/*Program 10 of C Lab Developed by Mr. Vaibhav Kant Singh*/
/*A Program Displaying the Use of Functions*/
/*Finding of Largest number*/
#include<stdio.h>
#include<conio.h>
main()
{
    void lar(int a,int b,int c);
    int i,j,k;
    clrscr();
    printf("\nEnter the First number\n");
    scanf("%d",&i);
    printf("\nEnter the Second number\n");
    scanf("%d",&j);
    printf("\nEnter the Third number\n");
    scanf("%d",&k);
    clrscr();
    printf("The Entered values of i,j,k are:\n\n");
    printf("i=%d\t j=%d\t k=%d\n\n",i,j,k);
    lar(i,j,k);
    getch();
}

void lar(int a,int b,int c)
{
    int gre;
    printf("\na=%d\t b=%d\t c=%d\n",a,b,c);
    gre=a;
    if(b>gre)
        gre=b;
    if(c>gre)
        gre=c;
    printf("\nGreatest of three numbers is %d\n",gre);
}

```

Figure 50:- Program Window for Tenth program[C PROGRAMMING]

Coding:-

```
/*Program 10 of C Lab Developed by Mr. Vaibhav Kant Singh*/
```

```
/* A Program Displaying the Use of Functions*/
```

```
/*Finding of Largest number*/
```

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
main()
```

```
{
    void lar(int a,int b,int c);
    int i,j,k;
    clrscr();
    printf("\n\nEnter the First number\t");
    scanf("%d",&i);
    printf("\n\nEnter the Second number\t");
    scanf("%d",&j);
    printf("\n\nEnter the Third number\t");
    scanf("%d",&k);
    clrscr();
    printf("The Entered values of i,j,k are;\n\n\n");
    printf("i=%d \t j=%d \t k=%d\n\n",i,j,k);
    lar(i,j,k);
    getch();
}

void lar(int a,int b,int c)
{
    int gre;
    printf("\n\na=%d\t b=%d\t c=%d\t",a,b,c);
    gre=a;
    if(b>gre)
        gre=b;
    if(c>gre)
        gre=c;
    printf("\n\nGreatest of three numbers is %d\n",gre);
}
```

Input:-

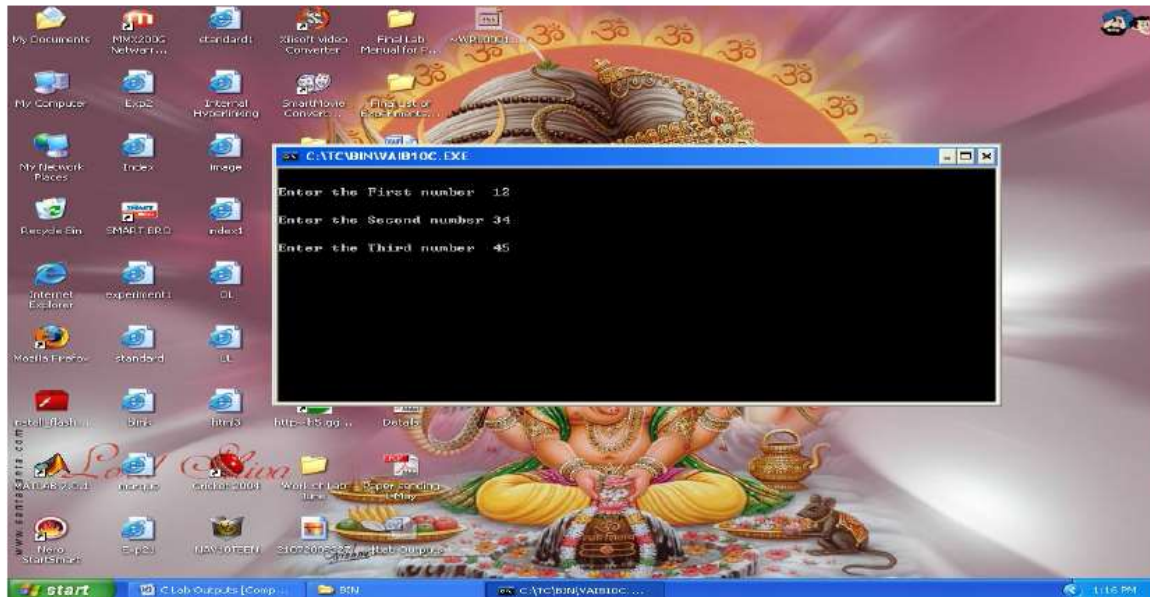


Figure 51:- Input for Tenth program[C PROGRAMMING]

Output:-

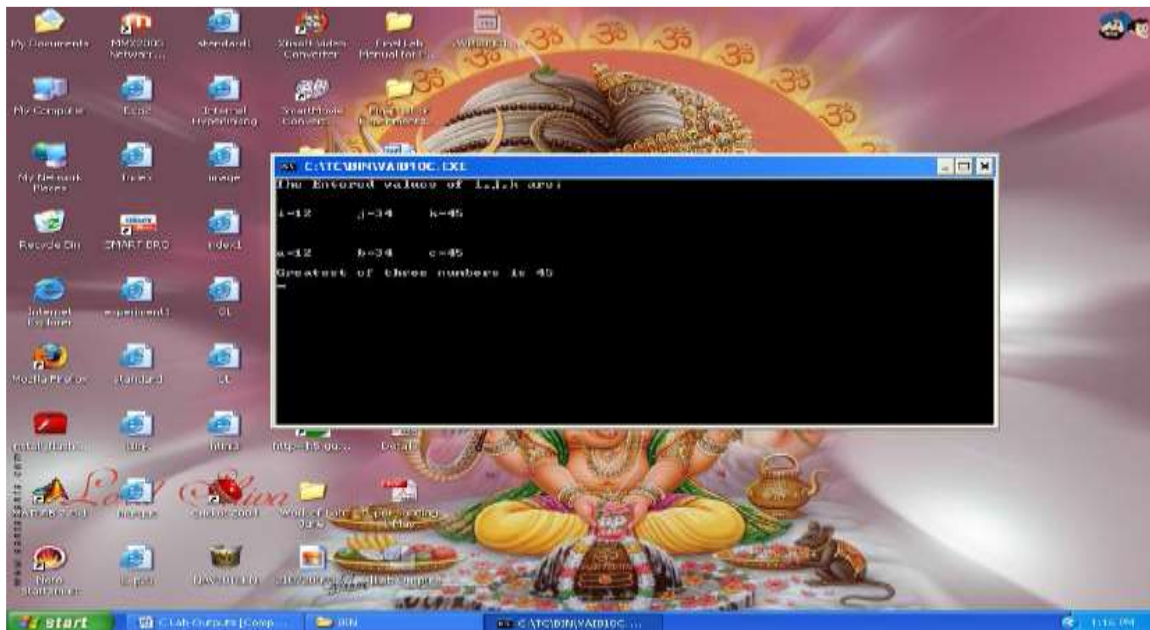


Figure 52:- Output for Tenth program[C PROGRAMMING]

REFERENCES

1. V. K. Singh, "Proposing Solution to XOR problem using minimum configuration MLP," Science Direct, International Conference on Computational Modeling and Security (CMS 2016), Elsevier, Procedia Computer Science, 85, pp. 263-270.
2. V.K. Singh and S. Pandey, "Minimum Configuration MLP for Solving XOR Problem," Proceeding of 10th INDIAcom, IEEE Conference ID:37465, 3rd International Conference on Computing for Sustainable Global Development, BVICAM, pp. 168-173, New Delhi, India.
3. V.K. Singh, "RSTDB & Cache Conscious Techniques for Frequent Pattern Mining," Proceeding 4th International Conference On Computer Applications In Electrical Engineering Recent Advances, CERA-09, pp. 433-436, Indian Institute of Technology, Roorkee, 2010.
4. V.K. Singh, "RSTDB a new candidate generation and test algorithm for frequent pattern mining," Proceeding International Conference on Advances in Communication Network and Computing, CNC-2010, ACM DL Digital Library, ISBN: 978-0-7695-4209-6, pp. 416-418, IEEE Communication Society, Washington DC, Calicut, Kerala, 4-5 Oct 2010.
5. V.K. Singh and V.K. Singh, "Minimizing Space Time Complexity by RSTDB a new method for Frequent Pattern Mining," Proceeding of the First International Conference on Human Computer Interaction, Springer, New Delhi, pp. 361-371, Indian Institute of Information Technology, Allahabad, 20-23 Jan 2009.
6. V.K. Singh, "Proposing a New ANN model for Solving XNOR problem," IEEE Conference ID: 39669, Proceeding IEEE 5th International Conference on System Modeling & Advancement in Research Trends (SMART), ISBN: 978-1-5090-3543-4, pp. 32-36, Moradabad, India 25-27 Nov. 2016.
7. V.K. Singh, "Designing Simulators for various VLSI Designs using the Proposed Artificial Neural Network model TRIVENI," IEEE Conference, Proceeding of IEEE International Conference on Information, Communication, Instrumentation and Control (ICICIC), ISBN: 978-1-5090-6313-0, pp. 1-6, Indore, India, 17-19 Aug 2017.
8. V.K. Singh and A.K. Singh, "Dual Level Digital Watermarking for Images," Proceeding of American Institute of Physics (AIP) of International Conference on Methods and Models in Science and Technology (ICM2ST-10), ISBN: 978-0-7354-0879-1, volume 1324, issue 01, pp. 284-287, 2010.
9. V.K. Singh, A. Baghel, N.D. Yadav, M. Sahu and M. Jaiswal, "Machine Learning Approach to Detect Breast Cancer," Design Engineering (Toronto), Scopus Journal, Volume 2021, Issue 08, pp. 7054-7060, ISSN: 0011-9342, 2021.
10. V.K. Singh, N.D. Yadav and R.K. Singh "Diagnosis of Breast Cancer Using SVM taking polynomial as Kernel," Design Engineering (Toronto), Scopus Journal, Volume 2021, Issue 09, pp. 6589-6599, ISSN: 0011-9342, 2021.
11. V.K. Singh, "Proposing pattern growth methods for frequent pattern mining on account of its comparison made with the candidate generation and test approach for a given data set," Software Engineering, Springer Singapore, pp. 203-209, 2019.

12. V.K. Singh and S. Pandey,” Proposing an Ex-NOR Solution using ANN,” Proceeding International Conference on Information, Communication and Computing Technology, JIMS, New Delhi.
13. V.K. Singh, “Mathematical Explanation To Solution For Ex-NOR Problem Using MLFFN,” International Journal of Information Sciences and Techniques, vol. 6, pp. 105-122, 2016.
14. V.K. Singh.,”Mathematical Analysis for Training ANNs Using Basic Learning Algorithms,” Research Journal of Computer and Information Technology Sciences, 4(7), pp. 6-13, 2016.
15. V.K. Singh and V.K. Singh, “Vector Space Model : An Information Retrieval System,” International Journal of Advanced Engineering Research and Studies, vol. 4(2), pp. 141-143.
16. V.K. Singh and V Shah, “Minimizing Space Time Complexity in Frequent Pattern Mining by Reducing Database Scanning and Using Pattern Growth Method,” Chhattisgarh Journal of Science & Technology ISSN: 0973-7219.
17. V.K. Singh and V.K. Singh, “The Huge Potential of Information Technology,” Proceedings of National Convention on Global Leadership: Strategies and Challenges for Indian Business, Feb pp.10-11.
18. V.K. Singh, “Analysis of Stability and Convergence on Perceptron Convergence Algorithm,” pp.149-161, International Conference by JIMS Delhi.
19. V.K. Singh, “SVM using rbf as kernel for Diagnosis of Breast Cancer,” International Conference on Innovative Research in Science, Management and Technology (ICIRSMT 2021), Department of Computer Science and Application, Atal Bihari Vajpayee University, Bilaspur (C.G.), India in association with American Institute of Management and Technology (AIMT), USA, December 27-28 2021.
20. V.K. Singh, “Support Vector Machine using rbf, polynomial, linear and sigmoid as kernel to detect Diabetes Cases and to make a Comparative Analysis of the Models,” International Conference on Innovative Research in Science, Management and Technology (ICIRSMT 2021), Department of Computer Science and Application, Atal Bihari Vajpayee University, Bilaspur (C.G.), India in association with American Institute of Management and Technology (AIMT), USA, December 27-28 2021.
21. V.K. Singh, “Colorization of old gray scale images and videos using deep learning,” Published in The Journal of Oriental Research Madras, ISSN: 0022-3301, 2021.
22. V.K. Singh, “Dual Secured Data Transmission using Armstrong Number and Color Coding,” Prestige e-Journal of Management and Research, Volume 3, Issue 1, ISSN: 2350-1316, April 2016.
23. V.K. Singh, A. Baghel and S.K. Negi, “Finding New Framework for Resolving Problems in Various Dimensions by the use of ES : An Efficient and Effective Computer Oriented Artificial Intelligence Approach,” Volume 4, No. 11, ISSN(Paper): 2222-1727, ISSN(Online): 2222-2871, 2013.
24. Chandrashekhar, R. Chauhan and V.K. Singh,” Twitter Sentiment Analysis,” ISPEC 8TH INTERNATIONAL CONFERENCE ON AGRICULTURAL,

- ANIMAL SCIENCE AND RURAL DEVELOPMENT, BINGOL, TURKEY, DECEMBER 24-25, 2021.
25. P. Kumari, R. Gupta, S. Kumar and V.K. Singh,” ML Approach for Detection of Lung Cancer,” ISPEC 8TH INTERNATIONAL CONFERENCE ON AGRICULTURAL, ANIMAL SCIENCE AND RURAL DEVELOPMENT, BINGOL, TURKEY, DECEMBER 24-25, 2021.
 26. P. Sailokesh, S. Jupudi, I.K. Vamsi and V.K. Singh,” Automatic Number Plate Recognition,” ISPEC 8TH INTERNATIONAL CONFERENCE ON AGRICULTURAL, ANIMAL SCIENCE AND RURAL DEVELOPMENT, BINGOL, TURKEY, DECEMBER 24-25, 2021.
 27. Y.K. Reddy, K.M. Yadav and V.K. Singh,” Human Activity Recognition,” ISPEC 8TH INTERNATIONAL CONFERENCE ON AGRICULTURAL, ANIMAL SCIENCE AND RURAL DEVELOPMENT, BINGOL, TURKEY, DECEMBER 24-25, 2021.
 28. R.N.R.K. Prasad, P.S.S.R Ram, S. Dinesh and V.K. Singh,” Text Summarization,” ISPEC 8TH INTERNATIONAL CONFERENCE ON AGRICULTURAL, ANIMAL SCIENCE AND RURAL DEVELOPMENT, BINGOL, TURKEY, DECEMBER 24-25, 2021.

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ISBN: 978-93-89817-67-6