Advance Web Engineering

ASP.NET with C#

LAB Manual

PRACTICAL NO. : 01(A)

AIM: Write a console application that obtains four int values from the user and displays the product.

Hint: you may recall that the Convert.ToDouble() command was used to convert the input from the console to a double; the equivalent command to convert from a string to an int is Convert.ToInt32().

CODE:

```
using System;
namespace ConsoleApplication1
{
 class Program
 {
 static void Main(string[] args)
 {
 int num1, num2,num3,num4,prod;
 Console.Write("Enter number 1: ");
 num1 = Int32.Parse(Console.ReadLine());
 Console.Write("Enter number 2: ");
 num2 = Convert.ToInt32(Console.ReadLine());
 Console.Write("Enter number 3: ");
 num3 = Convert.ToInt32(Console.ReadLine());
 Console.Write("Enter number 4: ");
 num4 = Convert.ToInt32(Console.ReadLine());
 prod = num1 * num2 * num3 * num4;
 Console.WriteLine(num1 + "*" + num2 + "*" + num3 + "*" + num4 + "=" + prod);  }
 }
}
```

OUTPUT:

```
Enter number 1: 6
Enter number 2: 5
Enter number 3: 4
Enter number 4: 3
6*5*4*3=360
```

PRACTICAL NO. : 01(B)

AIM: If you have two integers stored in variables var1 and var2, what Boolean test can you perform to see if one or the other (but not both) is greater than 10?

CODE:

```
using System;
namespace ConsoleApplication2
{
 class Program
 {
 static void Main(string[] args)
 {
 int var1, var2;
 Console.Write("Enter number 1: ");
 var1 = Int32.Parse(Console.ReadLine());
 Console.Write("Enter number 2: ");
 var2 = Convert.ToInt32(Console.ReadLine());
 if ((var1 > 10 && var2 <= 10) || (var2 > 10 && var1 <= 10))
 {
 Console.WriteLine("Boolean test succedded \n Both number are not >10");  }
 }
 }
}
```

OUTPUT:

```
Enter number 1: 5
Enter number 2: 11
Boolean test succedded
 Both number are not >10
```

PRACTICAL NO. : 01(C)

AIM: Write an application that includes the logic from Exercise 1, obtains two numbers from the user, and displays them, but rejects any input where both numbers are greater than 10 and asks for two new numbers.

CODE:

```
using System;
namespace ConsoleApplication2
{
 class Program
 {
 static void Main(string[] args)
 {
 int var1, var2;
 label1:
 Console.Write("Enter number 1: ");
 var1 = Int32.Parse(Console.ReadLine());
 Console.Write("Enter number 2: ");
 var2 = Convert.ToInt32(Console.ReadLine());
 if ((var1 > 10 && var2 > 10) )
 {
 Console.WriteLine("Both No are greater than 10 are not allowed");  goto
label1;
 }
 else
 {
 Console.WriteLine("Number 1: "+var1);
 Console.WriteLine("Number 2 :"+var2);
 }
 }
 }
 }
```

OUTPUT:

```
Enter number 1:15
Enter number 2: 16
Both no. are greater than 10 are not allowed
Enter number 1:5
Enter number 2: 15
Number 1: 5
Number 2 :15
```

PRACTICAL NO. : 01(D)

AIM: Write a console application that places double quotation marks around each word in a string .

CODE:

```
using System;
namespace ConsoleApplication3
{
class Program
{
static void Main(string[] args)
{
string str1;
Console.Write("Enter string 1: ");
str1 = Console.ReadLine();
string[] words = str1.Split(' ');
for (int i = 0; i < words.Length; i++)
{
Console.Write("\" " + words[i] + "\" ");
}
}
}
}
```

OUTPUT:

```
Enter string 1: we can and we will
“we” “can” “and” “we” “will”
```

PRACTICAL NO. : 01(E)

AIM: Write an application that uses two command-line arguments to place values into a string and an integer variable, respectively. Then display these values.

CODE:

```
using System;
namespace cmdLineArgs
{
 class Program
 {
 static void Main(string[] args)
 {
 string str = args[0];
 int n = Convert.ToInt32(args[1]);
 Console.WriteLine("String:" + str);
 Console.WriteLine("Number:" + n);
 }
 }
 }
```

OUTPUT:

```
String : Roman
Number : 10
```

PRACTICAL NO. : 01(F)

AIM: Write an application that receives the following information from a set of students:
Student Id:
Student Name:
Course Name:
Date of Birth:
The application should also display the information of all the students once the data is Entered. Implement this using an Array of Structures.

CODE:

```
using System;
namespace ArrayOfStructs
{
 class Program
 {
 struct Student
 {
 public string studid, name, cname;
 public int day, month, year;
 }
 static void Main(string[] args)
 {
 Student[] s = new Student[5];
 int i;
 for (i = 0; i < 5; i++)
 {
 Console.Write("Enter Student Id:");
 s[i].studid = Console.ReadLine();
 Console.Write("Enter Student name : ");
 s[i].name = Console.ReadLine();
 Console.Write("Enter Course name : ");
 s[i].cname = Console.ReadLine();
 Console.Write("Enter date of birth\n Enter day(1-31):");
 s[i].day = Convert.ToInt32(Console.ReadLine());
 Console.Write("Enter month(1-12):");
 s[i].month = Convert.ToInt32(Console.ReadLine());
 Console.Write("Enter year:");
 s[i].year = Convert.ToInt32(Console.ReadLine());
 }
 Console.WriteLine("\n\nStudent's List\n");
 for (i = 0; i < 5; i++)
 {
 Console.WriteLine("\nStudent ID : " + s[i].studid);
 Console.WriteLine("\nStudent name : " + s[i].name);
 Console.WriteLine("\nCourse name : " + s[i].cname);
 Console.WriteLine("\nDate of birth(dd-mm-yy) : " + s[i].day + "-" + s[i].month +  "-" +
s[i].year);
 } } } }
```

OUTPUT:

```
Enter Student Id:0001
Enter Student name : Prachit
Enter Course name : MSCit
Enter date of birth
 Enter day(1-31):29
Enter month(1-12):9
Enter year:1995
Enter Student Id:0002
Enter Student name : Aniket
Enter Course name : Bscit
Enter date of birth
 Enter day(1-31):4
Enter month(1-12):3
Enter year:1996
Enter Student Id:0003
Enter Student name :
Prathamesh Enter Course name :
BMS
```

```
Enter date of birth
 Enter day(1-31):9
Enter month(1-12):8
Enter year:2000
Enter Student Id:0004
Enter Student name : Sumit
Enter Course name :MScet
Enter date of birth
 Enter day(1-31):25
Enter month(1-12):5
Enter year:1994
Enter Student Id : 0005
Enter Student name : Zaid
Enter Course name :
BCOM Enter date of birth
 Enter day(1-31):6
Enter month(1-12):7
Enter year:1993

Student's List

Student ID: 0001
Student name: Prachit
Course name: MSCit
Date of birth(dd-mm-yy): 29-9-1995
Student ID: 0002
Student name:Aniket
Course name:Bscit
Date of birth(dd-mm-yy):4-3-1996
Student ID: 0003
Student name:Prathamesh
Course name: BMS
Date of birth(dd-mm-yy):9-8-2000
```

```
Student ID : 0004
Student name : Sumit
Course name : MScet
Date of birth(dd-mm-yy) : 25-5-1994
Student ID : 0005
Student name : Zaid
Course name : BCOM
Date of birth(dd-mm-yy) : 6-7-1993
```

AIM: Write programs using conditional statements and loops: **I)** Generate Fibonacci series.

CODE:

PRACTICAL NO. : 01(G)

AIM: Write programs using conditional statements and loops: **I)** Generate Fibonacci series.

CODE:

```
using System;
namespace ConsoleApplication3
{
 class Program
 {
 static void Main(string[] args)
 {
 int num1=0,num2=1,num3,num4,num,counter;
 Console.Write ("Upto how many number you want fibonacci series:");
num=int.Parse(Console.ReadLine());
 counter=3;
 Console.Write(num1+"\t"+num2);
 while(counter<=num)
 {
 num3 = num1 + num2;
                                    if (counter >= num)
 break;
 Console.Write("\t" + num3);
 num1 = num2;
 num2 = num3;
 counter++;
 }
 }
 }
}
```

OUTPUT:

```
Upto how many number you want fibonacci series:5
0 1 1 2 3
```

PRACTICAL NO. : 01(G)

AIM: Write programs using conditional statements and loops:

II) Generate various patterns (triangles, diamond and other patterns) with numbers.

CODE -1:

```
using System;
namespace ConsoleApplication1
{
 class Program
 {
 static void Main(string[] args)
 {
 int row, col;
 for (row = 1; row <= 5; row++)
 {
 for (col = 1; col <= row; col++)
 Console.Write(col);
 Console.WriteLine();
 }
 }
 }
}
```

OUTPUT:

```
1
12
123
1234
12345
```

CODE -2:

```
using System;
```

```
namespace ConsoleApplication1
{
 class Program
 {
 static void Main(string[] args)  {
 int row, sp, col;
 for (row = 1; row <= 5; row++)  {
 for (sp = 1; sp <= 5 - row; sp++)  {
 Console.Write(' ');
 }
 for (col = 1; col <= row; col++)  {
 Console.Write(col);  }
 Console.WriteLine();  }
 } } } }
```

<u>OUTPUT</u>:

```
 1
 12
 123
 1234
 12345
```

<u>CODE -3</u>:

```
using System;
namespace ConsoleApplication1
{
 class Program
 {
```

```
 static void Main(string[] args)
 {
 int row, sp, col,revcol;
 for (row = 1; row <= 5; row++)
 {
 for (sp = 1; sp <= 5 - row; sp++)  {
 Console.Write(' ');
 }
 for (col = 1; col <= row; col++)  {
 Console.Write(col);
 }
 for (revcol = col - 2; revcol >= 1; revcol--)  {
 Console.Write(revcol);
 }
 Console.WriteLine();
 }
 }
 }
}
```

OUTPUT:

```
 1
 121
 12321
 1234321
123454321
```

CODE-4:

```
using System;
namespace ConsoleApplication1
{
 class Program
 {
 static void Main(string[] args)
 {
 int row, sp, col, revcol;
 for (row = 1; row <= 5; row++) {   for (sp
= 1; sp <= 5 - row; sp++)  {
 Console.Write(' ');
 }
 for (col = 1; col <= row; col++)  {
 Console.Write(col);
 }
 for (revcol = col - 2; revcol >= 1; revcol--)  {
Console.Write(revcol); }  Console.WriteLine();
 }
 for (row = 4; row >= 1; row--) {   for (sp
= 1; sp <= 5 - row; sp++)  {
 Console.Write(' ');
 }
 for (col = 1; col <= row; col++)  {
 Console.Write(col);
 }
 for (revcol = col - 2; revcol >= 1; revcol--)  {
Console.Write(revcol); }  Console.WriteLine();
 } } } }
```

OUTPUT:

```
 1
 121
 12321
 1234321
123454321
 1234321
 12321
 121
 1
```

CODE-5:

```
using System;
namespace pattern
{
 class Program
 {
 static void Main(string[] args)
 {
 int row, col,sp,reverse;
 for (row = 1; row <= 5; row++)
 {
 for (sp = 1; sp <= 5 - row; sp++)
Console.Write(" ");
 for (col = 1; col <= row; col++)  if (col
== 1)
 Console.Write("*");
 else
 Console.Write(" ");
 for (reverse = col - 2; reverse >= 1; reverse--)  if
(reverse == 1)
 Console.Write("*");
 else
 Console.Write(" ");
 Console.WriteLine();
 }
 for (row = 4; row >=1; row--)
 {
 for (sp = 1; sp <= 5 - row; sp++)
Console.Write(" ");
 for (col = 1; col <= row; col++)  if (col
== 1)
 Console.Write("*");
 else
 Console.Write(" ");
 for (reverse = col - 2; reverse >= 1; reverse--)  if
(reverse == 1)
 Console.Write("*");
 else
 Console.Write(" ");
 Console.WriteLine();
 }
 } } }
```

<u>OUTPUT</u>:

```
 *
 * *  * *
* *  * *
* *  * *
* *  *
```

PRACTICAL NO. : 01(G)

AIM: Write programs using conditional statements and loops: **III)** Test for prime numbers.

CODE:

```
using System;
namespace testprime
```

```
{
 class Program
 {
 static void Main(string[] args)
 {
 int num, counter;
 Console.Write("Enter number:");
 num = int.Parse(Console.ReadLine());
 for (counter = 2; counter <= num / 2; counter++)  {
 if ((num % counter) == 0)
 break;
 }
 if (num == 1)
 Console.WriteLine(num + "is neither prime nor composite");  else
if(counter<(num/2))
 Console.WriteLine(num+"is not prime number");  else
 Console.WriteLine(num+"is prime number");  }
 }
}
```

OUTPUT:

```
(1st attempt)
Enter number:3
3 is prime number
(2nd)
Enter number:1
1 is neither prime nor composite
(3rd)
Enter number:4
4 is not prime number
```

PRACTICAL NO. : 01(G)

AIM: Write programs using conditional statements and loops:
 IV) Generate prime numbers.

CODE:

```
using System;
```

```
namespace testprime
{
 class Program
 {
 static void Main(string[] args)
 {
 int counter, lowerlimit, upperlimit, limitCounter;
 Console.Write("Enter lowerlimit:");
 lowerlimit = int.Parse(Console.ReadLine());
 Console.Write("Enter upperlimit:");
 upperlimit = int.Parse(Console.ReadLine());
 Console.WriteLine("Prime number between " + lowerlimit + "and " + upperlimit + "  are ");
 for (limitCounter = lowerlimit; limitCounter <= upperlimit; limitCounter++)  {
 for (counter = 2; counter <= limitCounter / 2; counter++)
 {
 if ((limitCounter % counter) == 0)
 break;
 }
 if (limitCounter == 1)
 Console.WriteLine(limitCounter + "is neither prime nor composite");  else if
(counter >= (limitCounter / 2))
 Console.WriteLine(limitCounter + "\t");
 }
 Console.WriteLine();
 }}}
```

OUTPUT:

```
Enter lowerlimit:1
Enter upperlimit:15
Prime number between 1and 15 are
1is neither prime nor composite
2
3
4
5
7
11
13
```

PRACTICAL NO. : 01(G)

AIM: Write programs using conditional statements and loops: **V)** Reverse a number and find sum of digits of a number.

CODE:

```
using System;
```

```
namespace reverseNumber
{
 class Program
 {
 static void Main(string[] args)
 {
 int num,actualnumber,revnum=0,digit,sumDigits=0;
Console.Write("Enter number:");
 num = int.Parse(Console.ReadLine());
 actualnumber = num;
 while (num > 0)
 {
 digit = num % 10;
 revnum = revnum * 10 + digit;
 sumDigits=sumDigits+digit;
 num = num / 10;
 }
 Console.WriteLine("Reverse of " + actualnumber + "=" + revnum);
Console.WriteLine("Sum of its digits:" + sumDigits);  }
 }
 }
```

OUTPUT:

```
Enter number:15
Reverse of 15=51
Sum of its digits:6
```

PRACTICAL NO. : 01(G)

AIM: Write programs using conditional statements and loops: **V)** Test for vowels.

CODE:

```
using System;
namespace vowels
{
 class Program
 {
 static void Main(string[] args)
 {
 char ch;
 Console.Write("Enter a character : ");
 ch = (char)Console.Read();
 switch (ch)
 {
 case 'a':
 case 'A':
 case 'e':
 case 'E':
 case 'i':
 case 'I':
 case 'o':
 case 'O':
 case 'u':
 case 'U':
 Console.WriteLine(ch + "is vowel");  break;
 default:
 Console.Write(ch + "is not a vowel");  break;
 }
 Console.ReadKey();
 }
 }
}
```

OUTPUT:

```
Enter a character : a
a is vowel

Enter a character : p
p is not a vowel
```

PRACTICAL NO. : 01(G)

AIM: Write programs using conditional statements and loops: **VII)** Use of foreach loop with arrays.

CODE:

```
using System;
class ExampleForEach
 {
 public static void Main()
 {
 string[] str = { "Shield", "Evaluation", "DX" };
foreach (String s in str)
 {
 Console.WriteLine(s);
 }
 }
 }
```

<u>OUTPUT</u>:

```
Shield
Evaluation
DX
```

<u>PRACTICAL NO. : 02(1)</u>

<u>AIM</u>: Write a program to declare a class ‘staff’ having data members as name and post.accept this data 5for 5 staffs and display names of staff who are HOD.

CODE:

```
using System;
namespace staff
{
 class staff
 {
 string name, post;
 public void getdata()
 {
 Console.Write("Enter name and post:");
 name = Console.ReadLine();
 post = Console.ReadLine();
 }
 public void display()
 {
 Console.WriteLine(name + "\t\t" + post);
 }
 public string getPost()
  {
 return post;
 }
 }
 class program
 {
 static void Main(string[] args)
 {
 staff[] objStaff = new staff[5];
 int i;
 for (i = 0; i < 5; i++)
 {
 objStaff[i] = new staff();
 objStaff[i].getdata();
 }
 Console.WriteLine("Name \t\t Post");
 for (i = 0; i < 5; i++)
 {
 if (objStaff[i].getPost() == "HOD")
 objStaff[i].display();
 }
 }
 }
}
```

OUTPUT:

```
Enter name and post:Prachit
HOD
Enter name and
post:Sumit PM
Enter name and post:Aniket
HOD
Enter name and
post:Prathamesh PM
Enter name and post:Zaid
CA
Name Post
Prachit HOD
Aniket HOD
```

PRACTICAL NO. : 02(2)

<u>AIM</u>: Write a program to declare class 'Distance' have data members dist1,dist2 ,dist3. Initialize the two data members using constructor and store their addition in third data member using function and display addition.

<u>CODE</u>:

```
using System;
namespace distanceclass
{
 class Distance
 {
 int dist1,dist2,dist3;
 public Distance(int dist1,int dist2)
 {
 this.dist1=dist1;
 this.dist2=dist2;
 }
 public void addition()
 {
 dist3=dist1+dist2;
 }
 public void display()
 {
 Console.WriteLine("Distance1:"+ dist1);
 Console.WriteLine("Distance1:"+ dist2);
 Console.WriteLine("Distance1:"+ dist3);
 } }
 class program
 {
 static void Main(string[] args)
 {
 Distance objDistance = new Distance(10, 20);
 objDistance.addition();
 objDistance.display();
 } } }
```

<u>OUTPUT</u>:

```
Distance1:10
Distance1:20
Distance1:30
```

PRACTICAL NO. : 02(3)

AIM: Write a program using function overloading to swap two integer numbers and swap two float numbers.

CODE:

```
using System;
namespace swap
{
 class Overloading
 {
 public void swap(ref int n, ref int m)
 {
 int t;
 t = n;
 n = m;
 m = t;
 }
 public void swap(ref float f1, ref float f2)
 {
 float f;
 f = f1;
 f1 = f2;
 f2 = f;
 }
 }
 class program
 {
 static void Main(string[] args)
 {
 Overloading objOverloading = new Overloading();
 int n = 10, m = 20;
 objOverloading.swap(ref n, ref m);
 Console.WriteLine("N=" + n + "\tM=" + m);
 float f1 = 10.5f, f2 = 20.6f;
 objOverloading.swap(ref f1, ref f2);
 Console.WriteLine("F1=" + f1 + "\tF2=" + f2);
 } } }
```

OUTPUT:

```
N=20 M=10
F1=20.6 F2=10.5
```

PRACTICAL NO. : 02(4)

AIM: Write a program to implement single inheritance from following figure. Accept and display data for one table.

Class Furniture
Data Members : material ,price

Class Table
Data Members : Height ,surface_area

CODE:

Furniture.cs

```
using System;
namespace SingleInheritance
{
 class Furniture
 {
 string material;
 float price;
 public void getdata()
 {
 Console.Write("Enter material : ");
 material = Console.ReadLine();
 Console.Write("Enter price : ");
 price = float.Parse(Console.ReadLine());
 }
 public void showdata()
 {
 Console.WriteLine("Material : " + material);
 Console.WriteLine("Price : " + price);
 } } }
```

Table.cs

```
using System;
namespace SingleInheritance
{
 class Table:Furniture
 {
 int height, surface_area;
 public void getdata()
 {
 base.getdata();
 Console.Write("Enter height: ");

 height = int.Parse(Console.ReadLine());
 Console.Write("Enter surface area: ");
```

```
 surface_area = int.Parse(Console.ReadLine());  }
 public void showdata()
 {
 base.showdata();
 Console.WriteLine("Height : " + height);
Console.WriteLine("Surface Area : " + surface_area);  } } }
```

Program.cs

```
using System;
namespace SingleInheritance
{
 class Program
 {
 static void Main(string[] args)
 {
 Table t1 = new Table();
 t1.getdata();
 t1.showdata();
 } } }
```

<u>OUTPUT</u>:

```
Enter material : wood
Enter price : 1220
Enter height: 35
Enter surface area: 26
Material : wood
Price : 1220
Height : 35
Surface Area : 26
```

PRACTICAL NO. : 02(5)

AIM: Define a class ‘salary’ which will contain member variable Basic, TA, DA, HRA. Write a program using Constructor with default values for DA and HRA and calculate the salary of employee.

CODE:

Salary.cs

```
using System;
namespace SalaryConstructure
{
 class Salary
 {
 int basic, ta, da, hra;
 public Salary()
 {
 da = 9000;
 hra = 6000;
 }
 public void getdata()
 {
 Console.Write("Enter basic salary : ");
 basic = int.Parse(Console.ReadLine());
 Console.Write("Enter travelling allowance : ");
 ta = int.Parse(Console.ReadLine());
 }
 public void showdata()
 {
 Console.WriteLine("Basic salary : " + basic);
 Console.WriteLine("Dearness allowence : " + da);
 Console.WriteLine("Housing rent allowence : " + hra);
 Console.WriteLine("Travelling allowence : " + ta);
 Console.WriteLine("Gross Salary : " + (basic + da + hra + ta));  } } }
```

Program.cs

```
using System;
namespace SalaryConstructure
{
 class Program
 {
 static void Main(string[] args)
 {
 Salary s = new Salary();
 s.getdata();
 s.showdata();
 } } }
```

<u>OUTPUT</u>:

```
Enter basic salary : 52000 Enter
travelling allowance : 3000 Basic
salary : 52000
Dearness allowence : 9000
Housing rent allowence : 6000
Travelling allowence : 3000
Gross Salary : 70000
```

PRACTICAL NO. : 02(6)

AIM: Program to implement the following multiple inheritance using interface.

Employee name,
basic_sal()

Interface: Gross
TA,DA ,Gross_sal()

Class :

Class : salary
Disp_sal(),HRA

<u>CODE</u>:

Gross.cs

```
using System;
namespace MultipleInheritance
{
 interface Gross
 {
 int ta
 {
 get;
 set;
 }
 int da
 {
 get;
 set;
 }
 int GrossSal();
 } }
```

Employee.cs

```
using System;
namespace MultipleInheritance
{
 class Employee
 {
 string name;
 public Employee(string name)  {
this.name = name; }
 public int BasicSal(int basicSal)  {
return basicSal; }
 public void ShowData()
 {
 Console.WriteLine("Name : " + name);  } } }
```

Salary.cs

```
using System;
namespace MultipleInheritance
{
 class Salary:employee,Gross
 {
```

```
 int hra;
 public Salary(string name, int hra):base(name)   {
this.hra = hra; }
 public int ta
 {
 get{return S_ta; }
 set { S_ta = value; }
 }
 private int S_ta;
 public int da
 {
 get { return S_da; }
 set { S_da = value; }
 }
 private int S_da;
 public int GrossSal()
 {
 int gSal;
 gSal = hra + ta + da + BasicSal(15000);
return gSal;
 }
 public void dispSal()
 { base.ShowData();
 Console.WriteLine("Gross Sal : " + GrossSal());  } } }
```

Program.cs

```
using System;
namespace MultipleInheritance
{
 class Program
 {
 static void Main(string[] args)
 {
 Salary s = new Salary("Prachit", 35000);  s.da
= 20000;
 s.ta = 30000;
 s.dispSal();
 } } }
```

OUTPUT:

```
Name :Prachit
Gross Sal :100000
```

PRACTICAL NO. : 02(7)

AIM: Write a program for above class hierarchy for the Employee where the base class is

Employee and derived class and Programmer and Manager. Here make display function virtual which is common for all and which will display information of Programmer and Manager interactively.

Employee

Programmer Manager

<u>CODE</u>:

Employee.cs

```
using System;
namespace HeirarchicalInheritance
{
 class employee
 {
 public virtual void display()
 {
 Console.WriteLine("Display of employee class called ");
 } } }
```

Programmer.cs

```
using System;
namespace HeirarchicalInheritance
{
 class Programmer:employee
 {
 public void display()
 {
 Console.WriteLine(" Display of Programmer class called ");  } } }
```

Manager.cs

```
using System;
namespace HeirarchicalInheritance
{
 class Manager
 {
 public void display()
 {
 Console.WriteLine("Display of manager class called ");
 } } }
```

Program.cs

```
using System;
namespace HeirarchicalInheritance
{
```

```
class Program
{
static void Main(string[] args)
{
Programmer objProgrammer;
Manager objManager;
Console.Write("Whose details you want to use to see \n 1.Programmer \n
2.Manager");
int choice=int.Parse(Console.ReadLine());
if(choice==1)
{
objProgrammer=new Programmer();
objProgrammer.display();
}
else if(choice==2)
{
objManager=new Manager();
objManager.display();
}
else
{
Console.WriteLine("Wrong choice entered");
} } } }
```

OUTPUT:

```
Whose details you want to use to see
 1.Programmer
 2.Manager1
 Display of Programmer class called

Whose details you want to use to see
 1.Programmer
 2.Manager2
Display of manager class called

Whose details you want to use to see
 1.Programmer
 2.Manager6
Wrong choice entered
```

PRACTICAL NO. : 02(8)

AIM: Write a program to implement multilevel inheritance from following figure. Accept and display data for one student.

Class student
Data Members : Roll_no , name

Class Test
Data Members : marks1 , marks2

Class Result
Data Members : total

CODE:

Result.cs

```
using System;
namespace multilevelinheritance
{
 class Result:Test
 {
 int total;
 public Result(int roll_no, string name, int marks1, int marks2)
 : base(roll_no, name, marks1, marks2)
 {
 total = getMarks1() + getMarks2();
 }
 public void display()
 {
 base.display();
 Console.WriteLine("Total: " + total);
 } } }
```

Test.cs

```
using System;
namespace multilevelinheritance
{
 class Test:student
 {
 int marks1, marks2;
 public Test(int roll_no, string name, int marks1, int marks2)
 : base(roll_no, name)
 {
 this.marks1 = marks1;
 this.marks2 = marks2;
 }
 public int getMarks1()
 {
 return marks1;
 }
 public int getMarks2()
 {
 return marks2;
 }
 public void dispaly()
 {
 base.display();
   Console.WriteLine("Marks1:    "    +    marks1);
Console.WriteLine("Marks2: " + marks2);  } } }
```

Student.cs

```
using System;
namespace multilevelinheritance
{
 class student
 {
 int roll_no;
 string name;

 public student(int roll_no, string name)  {
 this.roll_no = roll_no;
 this.name = name;
 }
 public student() { }
 public void display()
 {
 Console.WriteLine("Roll no: " + roll_no);
Console.WriteLine("Name: " + name);  } } }
```

Program.cs

```
using System;
namespace multilevelinheritance
{
 class Program
 {
 static void Main(string[] args)
 {
 Result r1 = new Result(101, "Prachit", 50, 70);
r1.display();
 } } }
```

OUTPUT:

```
Roll no: 101
Name: Prachit
Marks1: 50
Marks2: 70
Total: 120
```

PRACTICAL NO. : 02(9)

AIM: Write a program to create a delegate called TrafficDel and a class called TrafficSignal with the following delegate methods.

```
Public static void Yellow()
{
Console.WriteLine(“Yellow Light Signal To Get Ready”);
}

Public static void Green()
{
```

```
Console.WriteLine(“Green Light Signal To Go”);
 }

Public static void Red()
{
Console.WriteLine(“Red Light Signal To Stop”);
 }
```

Also include a method IdentifySignal() to initialize an array of delegate with the above methods and a method show() to invoke members of the above array.

CODE:

TrafficSignal.cs

```
using System;
namespace TrafficDelegateExample
{
 public delegate void TrafficDel();
 class TrafficSignal
 {
 public static void Yellow()
 {
 Console.WriteLine("Yellow light signals to get ready");
 }
 public static void Green()
 {
 Console.WriteLine("Green light signals to go");
 }
 public static void Red()
 {
 Console.WriteLine("Red light signals to stop");
 }
 TrafficDel[] td = new TrafficDel[3];
 public void IdentifySignal()
 {
 td[0] = new TrafficDel(Yellow);
 td[1] = new TrafficDel(Green);

 td[2] = new TrafficDel(Red);
```

```
 }
 public void display()
 {
 td[0]();
 td[1]();
 td[2]();
 }
 } }
```

Program.cs

```
using System;
namespace TrafficDelegateExample
{
 class Program
 {
 static void Main(string[] args)  {
 TrafficSignal ts = new TrafficSignal();
ts.IdentifySignal();
 ts.display();
 } } }
```

OUTPUT:

```
Yellow light signals to get ready
Green light signals to go
Red light signals to stop
```

PRACTICAL NO. : 02(10)

AIM: Write a program to accept a number from the user and throw an exception if the number is not an even number.

CODE:

NotEvenException.cs

```
using System;
```

```
namespace ExceptionHandlingExample
{
 class NotEvenException:Exception
 {
 public NotEvenException(string msg)
 : base(msg)
 {

 }
 } }
```

Program.cs

```
using System;
namespace ExceptionHandlingExample
{
 class Program
 {
 static void Main(string[] args)
 {
 int num;
 try
 {
 Console.Write("Enter a number: ");
 num = int.Parse(Console.ReadLine());
 if ((num % 2) != 0) throw new NotEvenException("Not an even number ");  else
 Console.WriteLine("Its even number ");
 }
 catch (NotEvenException e) { Console.WriteLine(e.Message); }  } } }
```

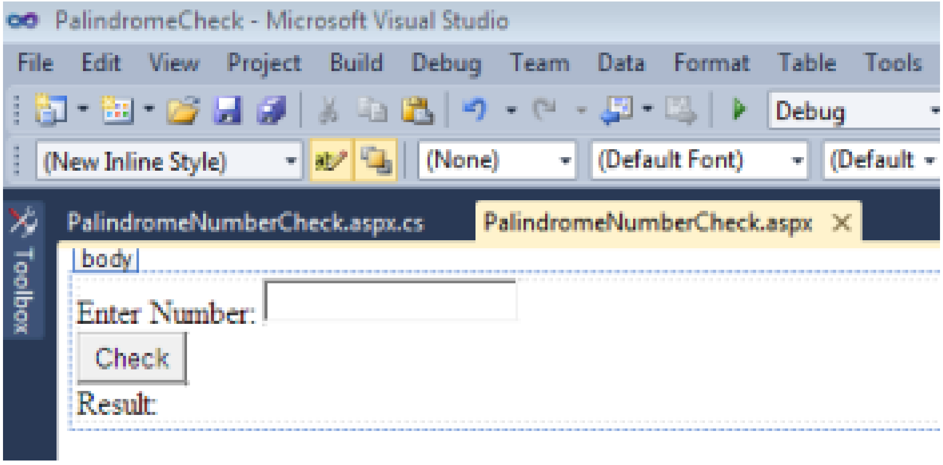
OUTPUT:

```
Enter a number: 5
Not an even number

Enter a number: 6
Its even number
```

PRACTICAL NO. : 03(1)

AIM: Create an application that allows the user to enter a number in the textbox named ‘getnum’. Check whether the number in the textbox ‘getnum’ is palindrome or not. Print the message accordingly in the label control named lbldisplay when the user clicks on the button ‘check’.

DESIGN:


PalindromeCheck - Microsoft Visual Studio
File Edit View Project Build Debug Team Data Format Table Tools
Debug
(New Inline Style)
(None)
(Default Font)
(Default
PalindromeNumberCheck.aspx.cs
PalindromeNumberCheck.aspx
Toolbox
body
Enter Number:
Check
Result:

PROPERTIES TABLE:

Control	**Property**	**Value**
Label1	Text	Enter Number
	ID	lblnum1
TextBox	ID	getNum
Button	Text	Check
	ID	btncheck
Label2	Text	Result
	ID	lblnum2

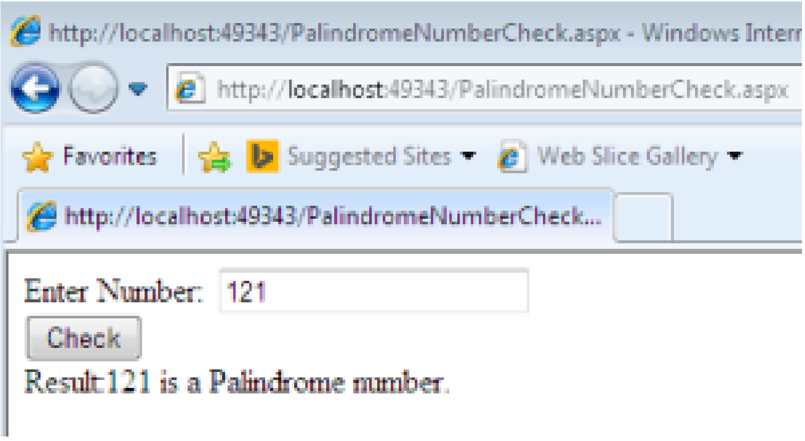
CODE:

```
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace PalindromeCheck
{
 public partial class PalindromeNumberCheck : System.Web.UI.Page
 {
 protected void Page_Load(object sender, EventArgs e)
 {
 }
 protected void btncheck_Click(object sender, EventArgs e)
 {
 int num = int.Parse(getNum.Text);
 int n, rev = 0, d;
```

```
 n = num;
 while (n > 0)
 {
```

```
d = n % 10;
n = n / 10;
rev = rev * 10 + d;
}
if (rev == num)

lblnum2.Text = lblnum2.Text + num + " is a Palindrome number.";  else
lblnum2.Text = lblnum2.Text + num + " is not a Palindrome number.";  } } }
```

BROWSER OUTPUT:


http://localhost:49343/PalindromeNumberCheck.aspx - Windows Intern
http://localhost:49343/PalindromeNumberCheck.aspx
Favorites
Suggested Sites
Web Slice Gallery
http://localhost:49343/PalindromeNumberCheck...
Check

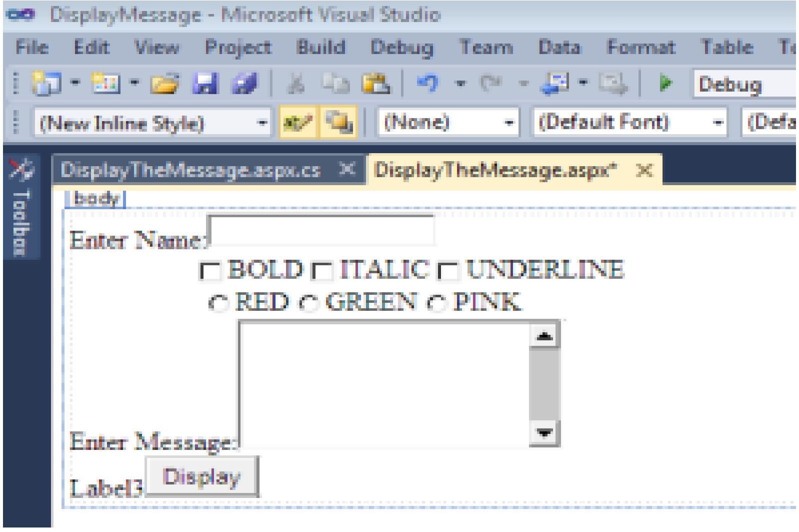
Enter Number: 121

Result:121 is a Palindrome number.

PRACTICAL NO. : 03(2)

AIM: Create an application which will ask the user to input his name and a message, display the two items concatenated in a label, and change the format of the label using radio buttons and check boxes for selection , the user can make the label text bold ,underlined or italic and change its color . include buttons to display the message in the label, clear the text boxes and label and exit.

DESIGN:


DisplayMessage - Microsoft Visual Studio
File Edit View Project Build Debug Team Data Format Table To
Debug
(New Inline Style)
(None)
(Default Font)
(Defa
Toolbox
DisplayTheMessage.aspx.cs
DisplayTheMessage.aspx*
body
Enter Name:
□ BOLD □ ITALIC □ UNDERLINE
○ RED ○ GREEN ○ PINK
Enter Message:
Label3
Display

PROPERTIES TABLE:

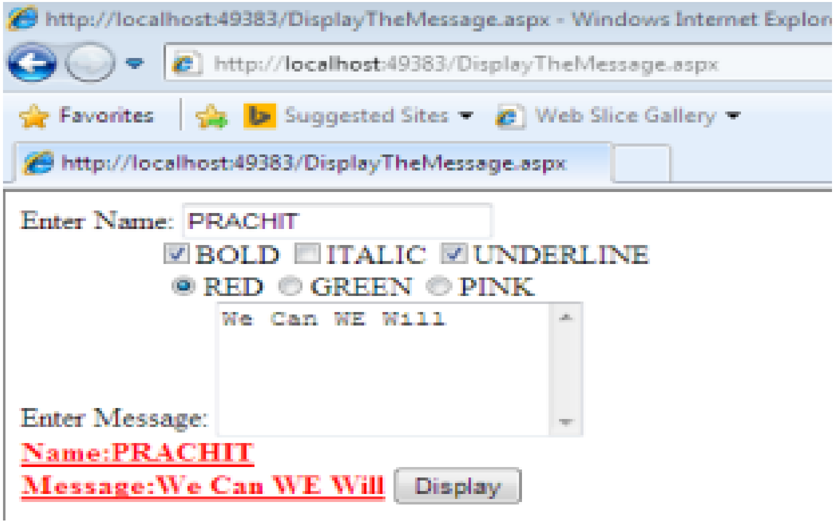
Control	Property	Value
Label1	ID	lbl1
	Text	Enter Name
Checkbox1	ID	chkbold
	Text	BOLD
Checkbox2	ID	chkitalic
	Text	ITALIC
Checkbox3	ID	chkunderline
	Text	UNDERLINE
RadioButton1	ID	rbred
	Text	RED
RadioButton2	ID	rbgreen
	Text	GREEN
RadioButton3	ID	rbpink
	Text	PINK
Label2	ID	txtmessage
	Text	Enter Message

Button	ID	btndisplay
	Text	Display
Label3	ID	lblDisplay
	Text	Label3

CODE:

```
using System;
namespace DisplayMessage
{
 public partial class DisplayTheMessage : System.Web.UI.Page
{
 protected void Page_Load(object sender, EventArgs e)  {
 }
 protected void btndisplay_Click(object sender, EventArgs e)  {
 if (chkbold.Checked == true)
 lblDisplay.Font.Bold = true;
 else
 lblDisplay.Font.Bold = false;

 if (chkitalic.Checked == true)
 lblDisplay.Font.Italic = true;
 else

 lblDisplay.Font.Italic = false;

 if (chkunderline.Checked == true)
 lblDisplay.Font.Underline = true;
 else
 lblDisplay.Font.Underline = false;
 if (rbred.Checked == true)
 lblDisplay.ForeColor = System.Drawing.Color.Red;  else
if(rbgreen.Checked == true)
 lblDisplay.ForeColor = System.Drawing.Color.Green;  else if
(rbpink.Checked == true)
 lblDisplay.ForeColor = System.Drawing.Color.Pink;  lblDisplay.Text =
"Name:" + txtName.Text + "<br/>" + "Message:" +  txtMessage.Text;
 } } }
```

BROWSER OUTPUT:


http://localhost:49383/DisplayTheMessage.aspx - Windows Internet Explor
http://localhost:49383/DisplayTheMessage.aspx
Favorites
Suggested Sites
Web Slice Gallery
http://localhost:49383/DisplayTheMessage.aspx

Enter Name: PRACHIT

☑ BOLD □ ITALIC ☑ UNDERLINE

● RED ○ GREEN ○ PINK

Enter Message: We Can WE Will

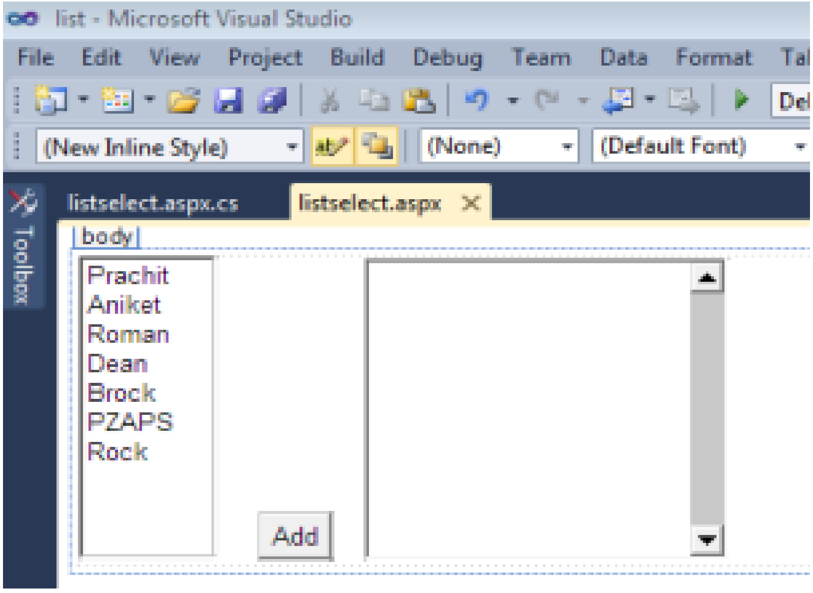
Name:PRACHIT

Message:We Can WE Will

PRACTICAL NO. : 03(3)

AIM: List of employees is available in listbox. Write an application to add selected or all records from listbox (assume multi-line property of textbox is true).

DESIGN:

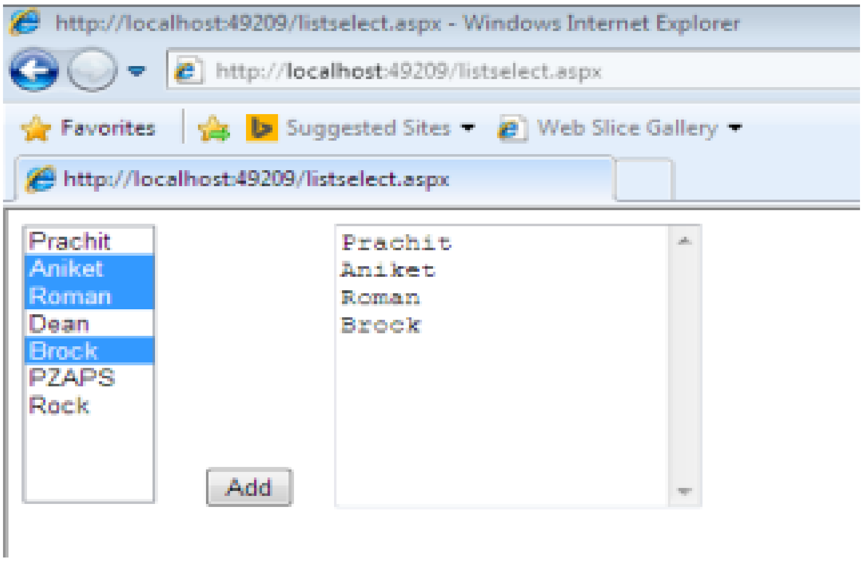


PROPERTIES TABLE:

CODE:

```
using System;
namespace list
{
 public partial class listselect : System.Web.UI.Page
 {
 protected void Page_Load(object sender, EventArgs e)
 {
 }
 protected void btnAdd_Click(object sender, EventArgs e)
 {
 int i;
 for (i = 0; i < lstEmployee.Items.Count; i++)
 {
 if (lstEmployee.Items[i].Selected == true)
 txtEmployee.Text += lstEmployee.Items[i].Text + "\n";  }
 } } }
```

BROWSER OUTPUT:

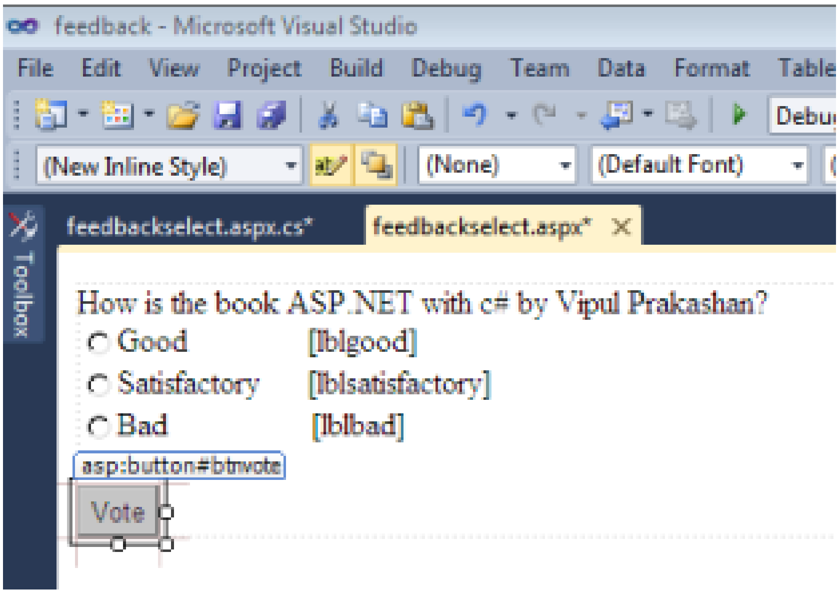

http://localhost:49209/listselect.aspx - Windows Internet Explorer
http://localhost:49209/listselect.aspx
Favorites
Suggested Sites
Web Slice Gallery
http://localhost:49209/listselect.aspx
Prachit
Aniket
Roman
Dean
Brock
PZAPS
Rock
Add

```
Prachit
Aniket
Roman
Brock
```

PRACTICAL NO. : 03(4)

AIM: "How is the book ASP.NET with c# by Vipul Prakashan?" Give the user three choice : i)Good ii)Satisfactory iii)Bad. Provide a VOTE button. After user votes, present the result in percentage using labels next to the choices.

DESIGN:


feedback - Microsoft Visual Studio
File Edit View Project Build Debug Team Data Format Table
Debu
(New Inline Style)
(None)
(Default Font)
Toolbox
feedbackselect.aspx.cs*
feedbackselect.aspx*
How is the book ASP.NET with c# by Vipul Prakashan?
○ Good [lblgood]
○ Satisfactory [lblsatisfactory]
○ Bad [lblbad]
asp:button#btnvote
Vote

PROPERTIES TABLE:

Control	Property	Value
Label1	ID	lbltxt1
	Text	How is the Book ASP.NET with c# Vipul Prakashan
RadioButton1	ID	rdogood
	Text	Good
RadioButton2	ID	rdosatisfactory
	Text	Satisfactory
RadioButton3	ID	rdobad
	Text	Bad
Label2	ID	lblgood
	Text	
Label3	ID	lblsatisfactory
	Text	
Label4	ID	lblbad

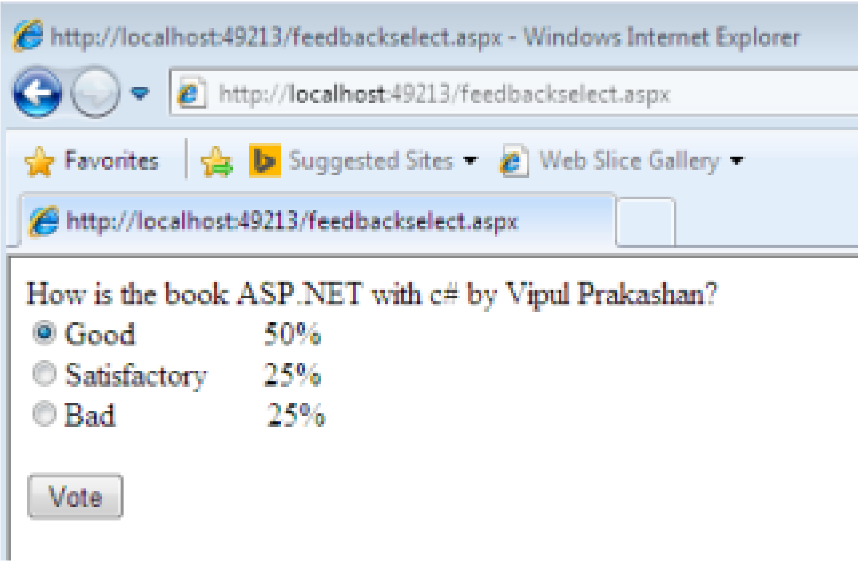
	Text	
Button	ID	btnvote
	Text	Vote

CODE:

```
using System;
namespace feedback
{
 public partial class feedbackselect : System.Web.UI.Page
{
 protected void Page_Load(object sender, EventArgs e)  {
 }
 protected void btnvote_Click(object sender, EventArgs e)  {
 if (rdogood.Checked == true)
 {
 int goodCount;
 if (ViewState["gcount"] != null)
 goodCount = Convert.ToInt32(ViewState["gcount"]) + 1;  else
 goodCount = 1;
 ViewState["gcount"] = goodCount;
 }


 if (rdosatisfactory.Checked == true)
 {
 int satisfactoryCount;
 if (ViewState["scount"] != null)
 satisfactoryCount = Convert.ToInt32(ViewState["scount"]) + 1;  else
 satisfactoryCount = 1;
 ViewState["scount"] = satisfactoryCount;
 }
 if (rdobad.Checked == true)
 {
 int badCount;
 if (ViewState["bcount"] != null)
 badCount = Convert.ToInt32(ViewState["bcount"]) + 1;  else
 badCount = 1;
 ViewState["bcount"] = badCount;
 }
 int totalCount;
 if (ViewState["count"] != null)
 totalCount = Convert.ToInt32(ViewState["count"]) + 1;  else
 totalCount = 1;
 ViewState["count"] = totalCount;
 double gper = (Convert.ToDouble(ViewState["gcount"]) /
Convert.ToDouble(ViewState["count"])) * 100.0f;
```

```
 lblgood.Text = gper.ToString() + "%";
 double sper = (Convert.ToDouble(ViewState["scount"]) /
Convert.ToDouble(ViewState["count"])) * 100.0f;
 lblsatisfactory.Text = sper.ToString() + "%";
 double bper = (Convert.ToDouble(ViewState["bcount"]) /
Convert.ToDouble(ViewState["count"])) * 100.0f;
 lblbad.Text = bper.ToString()+"%";

 } } }
```

BROWSER OUTPUT:


http://localhost:49213/feedbackselect.aspx - Windows Internet Explorer
http://localhost:49213/feedbackselect.aspx
Favorites
Suggested Sites
Web Slice Gallery
http://localhost:49213/feedbackselect.aspx
Vote

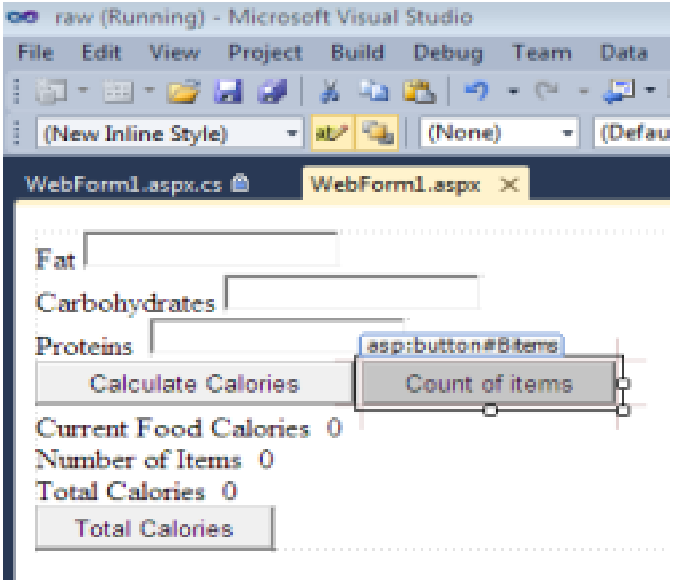
How is the book ASP.NET with c# by Vipul Prakashan?

● Good 50%
○ Satisfactory 25%
○ Bad 25%

PRACTICAL NO. : 03(5)

AIM: Create a project that calculates the total of fat, carbohydrate and protein. Allow the user to enter into text boxes. The grams of fat, grams of carbohydrate and grams of protein. Each gram of fat is 9 calories and protein or carbohydrate is 4 calories. Display the total calories of the current food item in a label. Use to other labels to display and accumulated some of calories and the count of items entered. The form food have 3 text boxes for the user to enter the grams for each category include label next to each text box indicating what the user is enter.

DESIGN:



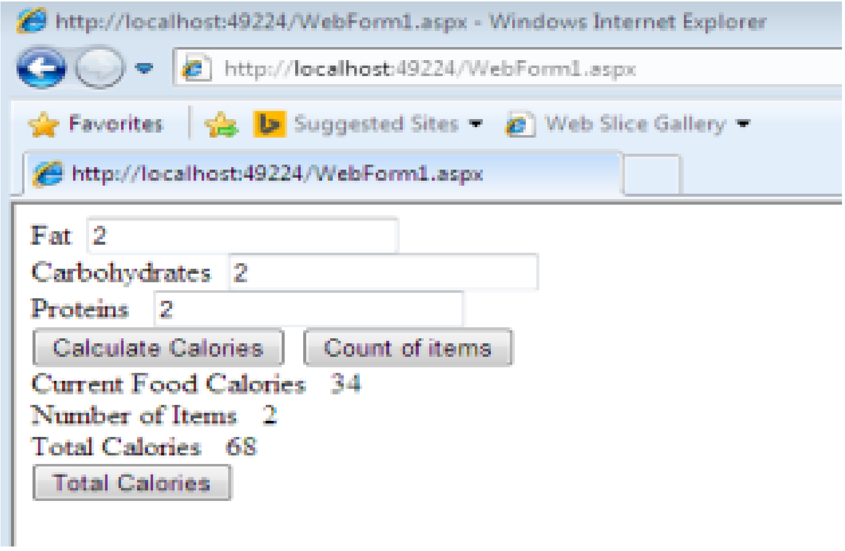
PROPERTIES TABLE:

CODE:

```
using System;
namespace raw
{
 public partial class WebForm1 : System.Web.UI.Page
 {
 protected void Page_Load(object sender, EventArgs e)
 {
 }
 int curr_cal, total_cal, total_items;
 protected void Bcalories_Click(object sender, EventArgs e)
 {
 curr_cal = (Convert.ToInt32(txtfat.Text) * 9 + Convert.ToInt32(txtcarbo.Text) * 4 +
Convert.ToInt32(txtpro.Text) * 4);
 lblcfc.Text = Convert.ToString(curr_cal);
 lblnof.Text = Convert.ToString(total_cal);
```

```
 lbltc.Text = Convert.ToString(total_items);
 }
 protected void Bitems_Click(object sender, EventArgs e)  {
 lblnof.Text = Convert.ToString(Convert.ToInt32(lblnof.Text) + 1);  }
 protected void Btotalcalo_Click(object sender, EventArgs e)  {
 lbltc.Text = Convert.ToString(Convert.ToInt32(lbltc.Text) +
Convert.ToInt32(lblcfc.Text));
 }
 } }
```

BROWSER OUTPUT:

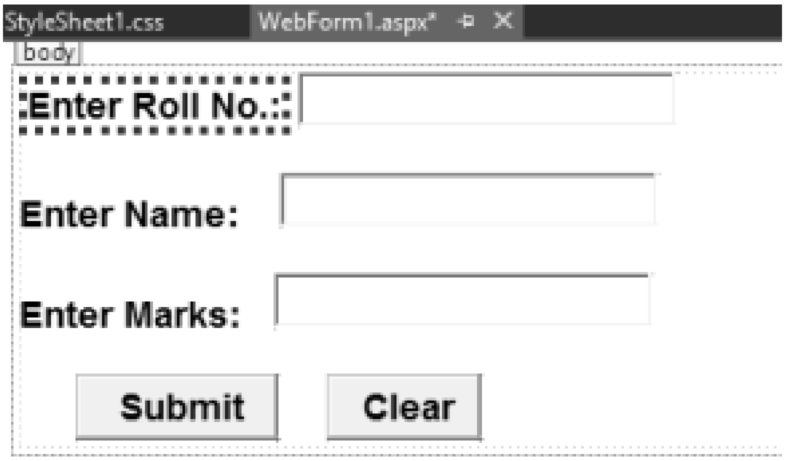

http://localhost:49224/WebForm1.aspx - Windows Internet Explorer
http://localhost:49224/WebForm1.aspx
Favorites
Suggested Sites
Web Slice Gallery
http://localhost:49224/WebForm1.aspx
Calculate Calories
Count of items
Total Calories

```
Fat 2
Carbohydrates 2
Proteins 2
Current Food Calories 34
Number of Items 2
Total Calories 68
```

PRACTICAL NO. : 04(1)

AIM: Set the label border color of rollno to red using css.

DESIGN:



PROPERTY TABLE :

Control	Property	Value
Label1	ID	lblRollNo
Label1	Text	Enter Roll No.
Label1	BorderStyle	Dotted
Label1	BackColor	Coral
Label2	ID	lblName
Label2	Text	Enter Name
Label3	ID	lblMarks
Label3	Text	Enter Marks
TextBox1	ID	txtRollNo
TextBox2	ID	txtName
TextBox3	ID	txtMarks
Button1	ID	btnSubmit
Button1	Text	Submit

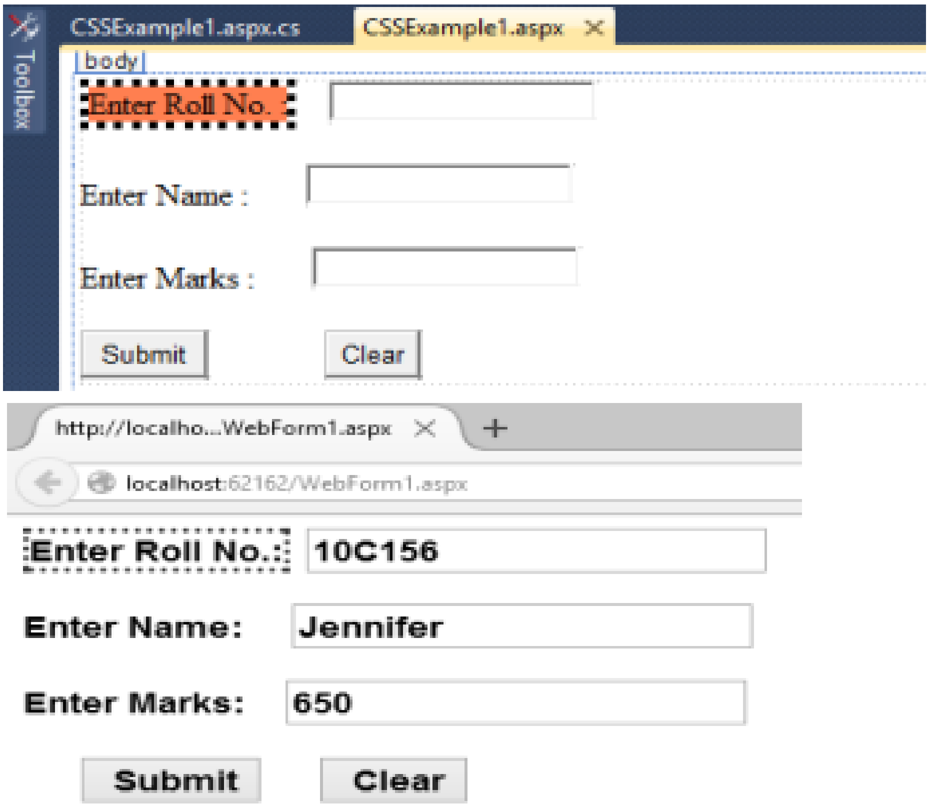
CODE:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="cssexample.aspx.cs"
Inherits="practical4css.cssexample" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
```

```
 <title></title>
```

```
</head>
<body>
 <form id="form1" runat="server">
 <div>
 <asp:Label ID="Label1" runat="server" Text="Enter Roll No.:"
BorderStyle="Dotted" BackColor="Coral"></asp:Label>
 <asp:TextBox ID="TextBox1" runat="server"></asp:TextBox>
 <br />
 <asp:Label ID="Label2" runat="server" Text="Enter Name:"></asp:Label>
<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>
 <br />
 <asp:Label ID="Label3" runat="server" Text="Enter Marks:"></asp:Label>
<asp:TextBox ID="TextBox3" runat="server"></asp:TextBox>
 <br />
 <br />
 <asp:Button ID="Button1" runat="server" Text="Submit" />
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp
;  <asp:Button ID="Button2" runat="server" Text="Clear" />
 </div>
 </form>
</body>
</html>
```

BROWSER OUTPUT:



Enter Roll No.: 10C156

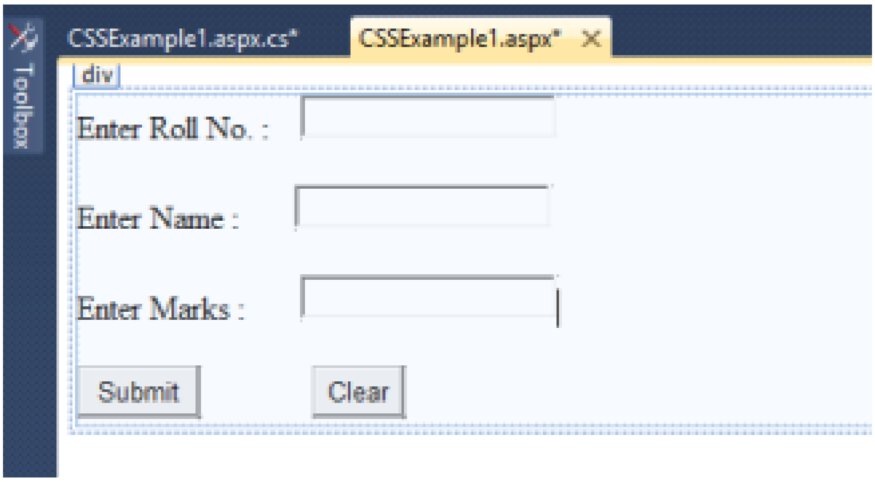
Enter Name: Jennifer

Enter Marks: 650

PRACTICAL NO. : 04(2)

AIM: Set the font-Arial , font style-bond , font size-18px of different controls(ie. Label, textbox, button) using css.

DESIGN:



PROPERTY TABLE :

Control	Property	Value
Label1	ID	lblRollNo
Label1	Text	Enter Roll No.
Label1	BorderStyle	Dotted
Label1	BackColor	Coral
Label2	ID	lblName
Label2	Text	Enter Name
Label2	CssClass	Common
Label3	ID	lblMarks
Label3	Text	Enter Marks
Label3	CssClass	Common
TextBox1	ID	txtRollNo
TextBox1	CssClass	Txt Style
TextBox2	ID	txtName

TextBox2	CssClass	Txt Style
TextBox3	ID	txtMarks
TextBox3	CssClass	Txt Style
Button1	ID	btnSubmit
Button1	Text	Submit
Button1	CssClass	btnStyle
Button2	ID	btnClear
Button2	Text	Clear
Button2	CssClass	btnStyle

<u>CODE</u>:

Myformat.css

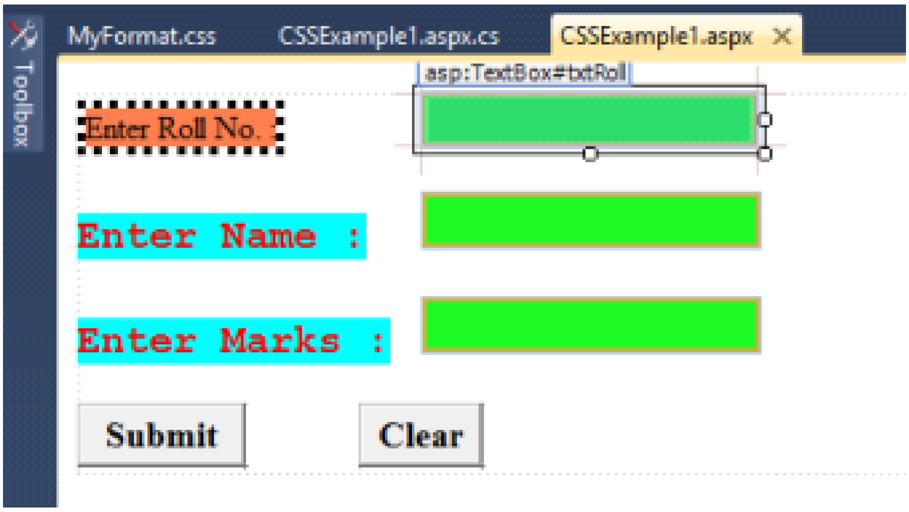
```
.BtnStyle
{
font-family:Times New Roman;
font-size:large;
font-weight:bold;
 }
.TxtStyle
{
font-family:Georgia;
font-size:larger;
font-weight:400;
background-color:Maroon;
border:2px solid goldenrod;
 }
.Common
{
background-color:Aqua;
color:Red;
font-family:Courier New;
font-size:20px;
font-weight:bolder;
 }
```

Myformatting.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="cssexample.aspx.cs"
Inherits="practical4css.cssexample" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<title></title>
<body>
<form id="form1" runat="server">
<div>
<asp:Label ID="Label1" runat="server" Text="Enter Roll No.:" BorderStyle="Dotted"
BackColor="Coral"></asp:Label>
<asp:TextBox ID="TextBox1" runat="server" CssClass="TxtStyle"></asp:TextBox>
<br />
<asp:Label ID="Label2" runat="server" Text="Enter Name:"
CssClass="Common"></asp:Label>
<asp:TextBox ID="TextBox2" runat="server" CssClass="TxtStyle"></asp:TextBox>
<br />
```

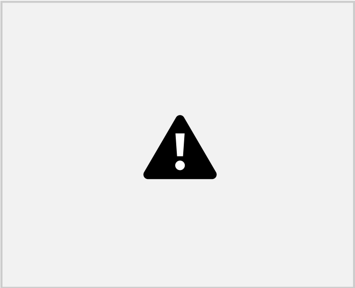
```
<asp:Label ID="Label3" runat="server" Text="Enter Marks:"
CssClass="Common"></asp:Label>
<asp:TextBox ID="TextBox3" runat="server" CssClass="TxtStyle"></asp:TextBox>
<br />
<br />
<asp:Button ID="Button1" runat="server" Text="Submit" CssClass="BtnStyle" />
<asp:Button ID="Button2" runat="server" Text="Clear" CssClass="BtnStyle" />
</div>
</form>
</body>
</html>
```

BROWSER OUTPUT:



PRACTICAL NO. : 04(3)

AIM: Design the same webpages for BMS, BAF, BscIT students and apply same background color for all the pages using css.



PROPERTY TABLE :

Control	Property	Value

Label1	ID	lblBScIT
Label1	Text	Welcome to BScIT
Label1	CssClass	bk

Control	Property	Value
Label1	ID	lblBAF
Label1	Text	Welcome to BMS
Label1	CssClass	bk

Control	Property	Value
Label1	ID	lblBMS
Label1	Text	Welcome to BAF
Label1	CssClass	bk

CODE:

Myformat.css

```
 .BtnStyle
{
font-family:Times New Roman;
font-size:large;
font-weight:bold;
 }
.TxtStyle
{
font-family:Georgia;
font-size:larger;
font-weight:400;
background-color:Lime;
border:2px solid goldenrod;
 }
.Common
{
```

```
background-color:Aqua;
color:Red;
font-family:Courier New;
```

```
font-size:20px;
font-weight:bolder;
 }
.bk
{
background-color:Lime;
}
```

BScIT.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="BScIT.aspx.cs"
Inherits="cssExample.BScIT" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
 <title></title>
 <link rel="Stylesheet" type="text/css" href="MyFormat.css" />
</head>
<body text="Welcome to BScIT">
 <form id="form1" runat="server">
 <div class="bk">
 <asp:Label ID="lblBScIT" runat="server" Text="Welcome to BscIT"></asp:Label>
</div>
 </form>
</body>
</html>
```

BAF.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="BAF.aspx.cs"
Inherits="cssExample.BAF" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
 <title></title>
 <link rel="Stylesheet" type="text/css" href="MyFormat.css" />
</head>
<body>
 <form id="form1" runat="server">
 <div class="bk">
 <asp:Label ID="lblBAF" runat="server" Text="Welcome to BAF"></asp:Label>
</div>
 </form>

</body>
```

```
</html>
```

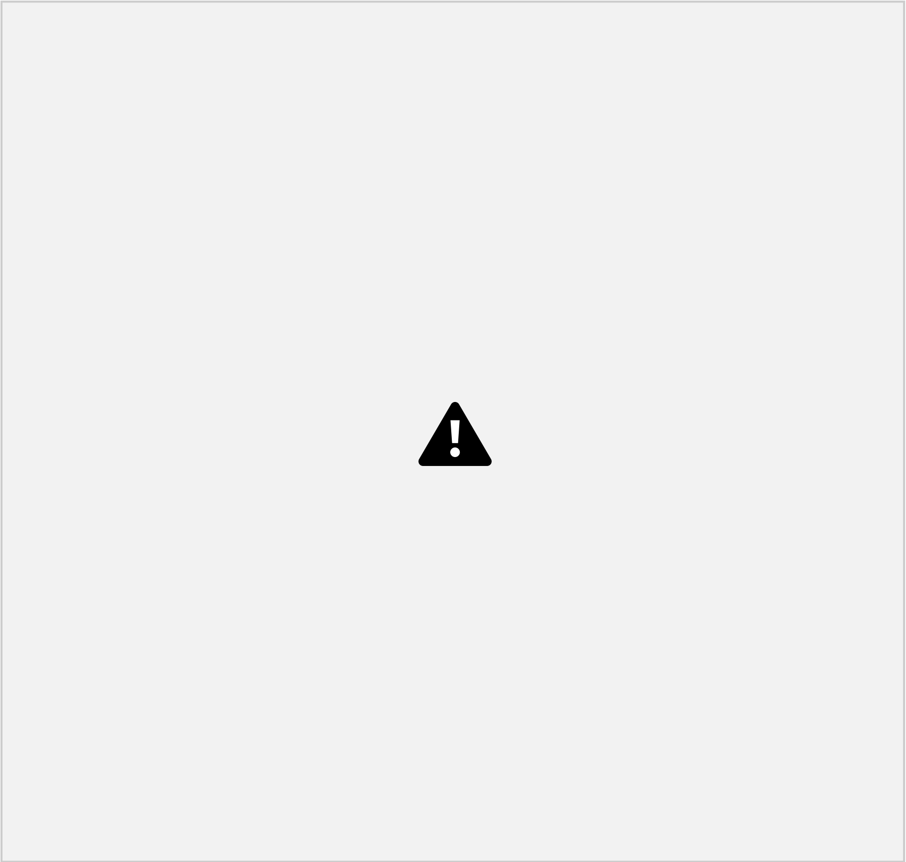
BMS.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="BMS.aspx.cs"
Inherits="cssExample.BMS" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">


<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
 <title></title>
 <link rel="Stylesheet" type="text/css" href="MyFormat.css" />
</head>
<body>
 <form id="form1" runat="server" class="bk">
 <asp:Label ID="lblBMS" runat="server" Text="Welcome to BMS"></asp:Label>
</form>
</body>
</html>
```

CSSExample1.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="CSSExample1.aspx.cs"
Inherits="cssExample.CSSExample1" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
 <title></title>
 <link rel="Stylesheet" type="text/css" href="MyFormat.css" />
</head>
<body>
 <form id="form1" runat="server">
 <div>
 <asp:Label ID="lblRollNo" runat="server" Text="Enter Roll No. :"
BorderStyle="Dotted" BackColor="Coral"></asp:Label>
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbs
p;&nbsp;&nbsp;&nbsp;
 <asp:TextBox ID="txtRoll" runat="server" CssClass="TxtStyle"></asp:TextBox>  <br
/>
 <br />
 <asp:Label ID="lblName" runat="server" Text="Enter Name :"
CssClass="Common"></asp:Label>
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
 <asp:TextBox ID="txtName" runat="server" CssClass="TxtStyle"></asp:TextBox>  <br
/>

 <br />
 <asp:Label ID="lblMarks" runat="server" Text="Enter Marks :"
CssClass="Common"></asp:Label>
 &nbsp;&nbsp;&nbsp;
 <asp:TextBox ID="txtMarks" runat="server" CssClass="TxtStyle"></asp:TextBox>  <br
/>
 <br />
 <asp:Button ID="btnSubmit" runat="server" onclick="btnSubmit_Click"
Text="Submit" CssClass="BtnStyle" />
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbs
p;
 <asp:Button ID="btnClear" runat="server" Text="Clear" CssClass="BtnStyle"/>
<br>
 <br>
 <br>
 <h1><a href="BScIT.aspx"</a>Bsc IT</h1>
 <h2><a href ="BAF.aspx"</a>BAF</h2>
 <h3><a href ="BMS.aspx"</a>BMS</h3>
 <a href="http://www.vsit.edu.in/">
 Contact us</a>
 </div>
 </form>
</body>
</html>
```

OUTPUT:

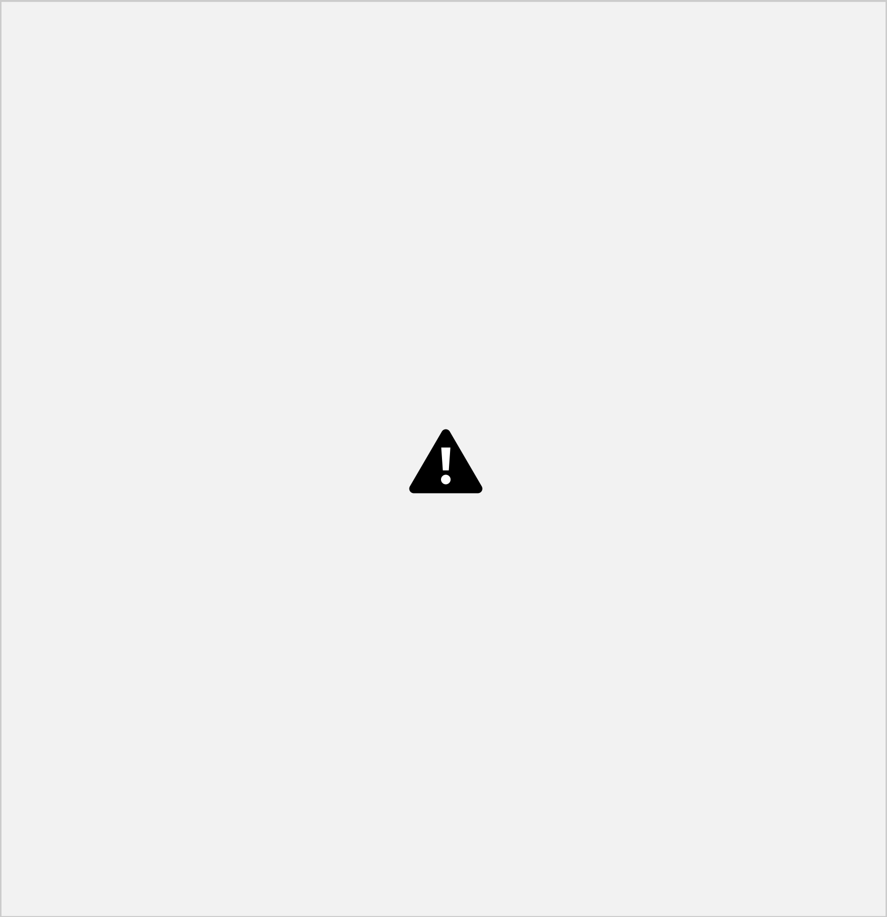


DESIGN:

PRACTICAL NO. : 04(4)

AIM: Change the font family and color of all heading of above webpage using css.

DESIGN:



<u>CODE</u>:

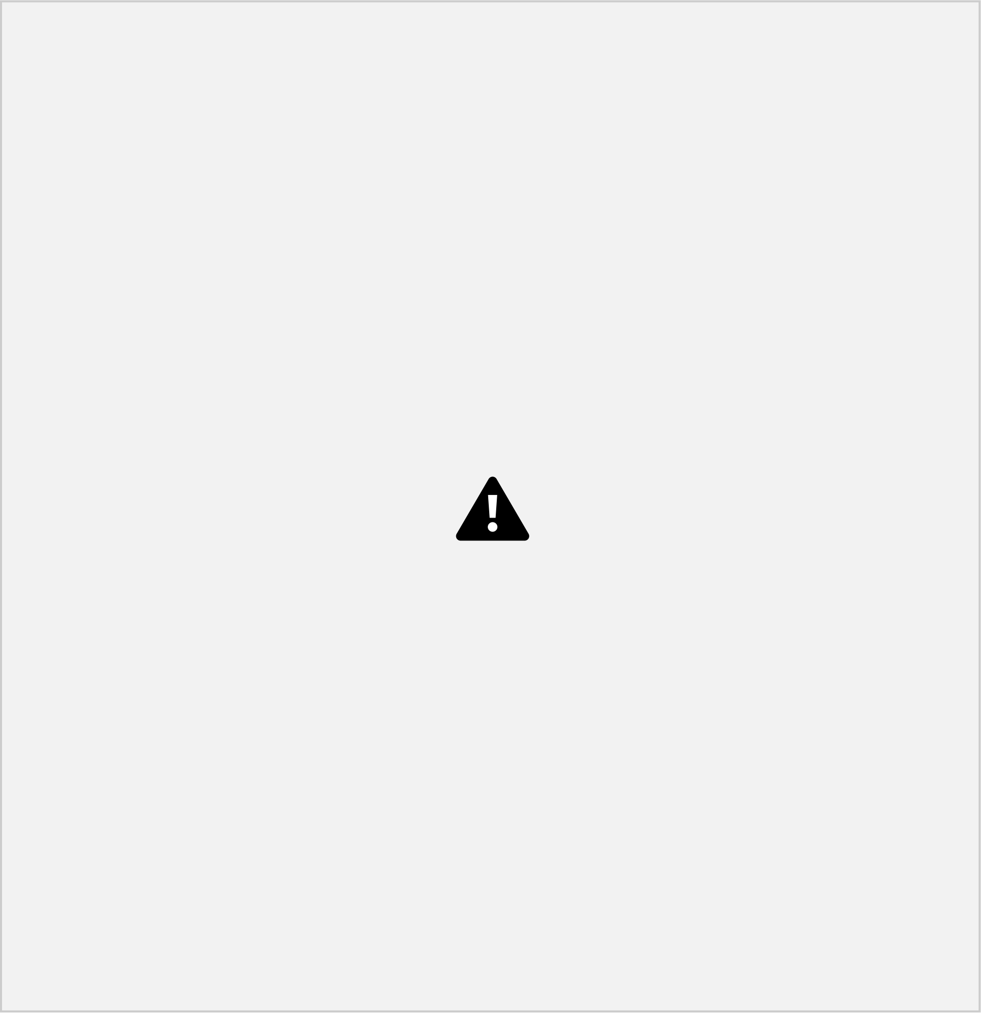
myformating.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="myformatting.aspx.cs"
Inherits="WebApplication1.myformatting" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<title></title>
<link rel="Stylesheet" type="text/css" href="MyFormat.css" />
<style type="text/css">
h1,h2,h3{color:Blue; font-family:Agency FB;}
</style>
</head>
```

```
<body>
<form id="form1" runat="server">
<div>
<asp:Label ID="Label1" runat="server" Text="Enter Roll No.:" BorderStyle="Dotted"
BackColor="Coral"></asp:Label>
<asp:TextBox ID="TextBox1" runat="server" CssClass="TxtStyle"></asp:TextBox>
```

```
<br />
<asp:Label ID="Label2" runat="server" Text="Enter Name:"
CssClass="Common"></asp:Label>
<asp:TextBox ID="TextBox2" runat="server" CssClass="TxtStyle"></asp:TextBox>
<br />
<asp:Label ID="Label3" runat="server" Text="Enter Marks:"
CssClass="Common"></asp:Label>
<asp:TextBox ID="TextBox3" runat="server" CssClass="TxtStyle"></asp:TextBox>
<br />
<br />

<asp:Button ID="Button1" runat="server" Text="Submit" CssClass="BtnStyle" />
<asp:Button ID="Button2" runat="server" Text="Clear" CssClass="BtnStyle" />
<h1><a href="bscit.aspx"</a>Bsc IT</h1>
<h2><a href ="baf.aspx"</a>BAF</h2>
<h3><a href ="bms.aspx"</a>BMS</h3>
<a href="http://www.vsit.edu.in/">
Contact us</a>
<br />
<br />
<br />
<br />
</div>
</form>
</body>
</html>
```

BROWSER OUTPUT:



PRACTICAL NO. : 04(5)

AIM: Use pseudo classes and display link, visited link and active link of contact us differently.

DESIGN:

CODE:

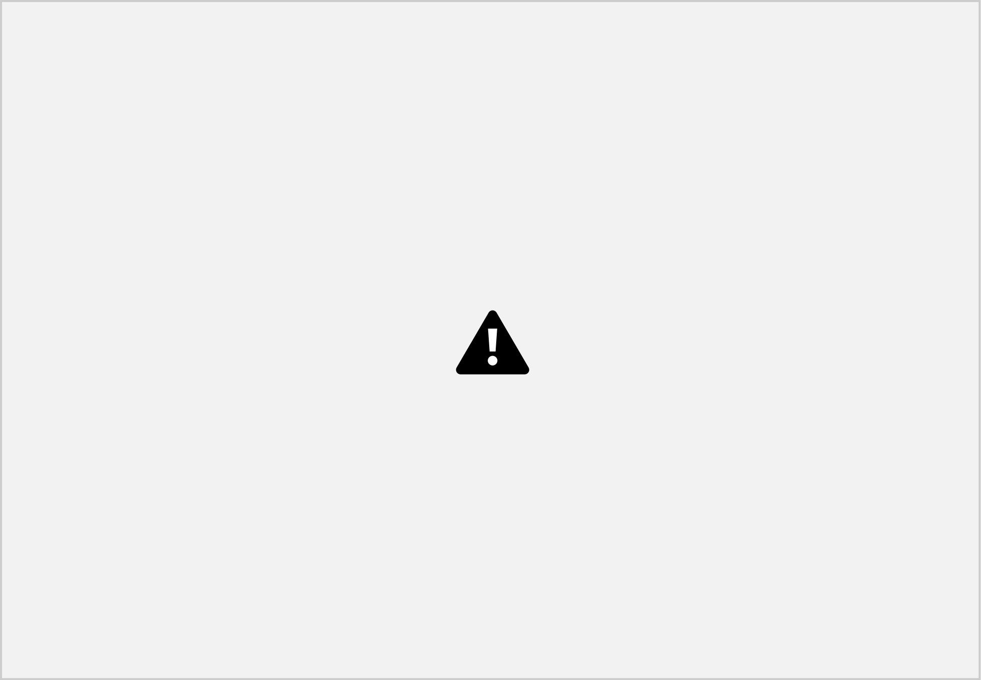
myformatting.aspx

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="myformatting.aspx.cs"
Inherits="WebApplication1.myformatting" %>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
<title></title>
<link rel="Stylesheet" type="text/css" href="MyFormat.css" />
<style type="text/css">
h1,h2,h3{color:Blue; font-family:Agency FB;}
A:link{color:Red;}
A:visited{color:Green;}
A:active{color:Orange;}
</style>
</head>

<body>
<form id="form1" runat="server">
<div>
<asp:Label ID="Label1" runat="server" Text="Enter Roll No.:" BorderStyle="Dotted"
BackColor="Coral"></asp:Label>
```

```
<asp:TextBox ID="TextBox1" runat="server" CssClass="TxtStyle"></asp:TextBox> <br />
<asp:Label ID="Label2" runat="server" Text="Enter Name:"
CssClass="Common"></asp:Label>
<asp:TextBox ID="TextBox2" runat="server" CssClass="TxtStyle"></asp:TextBox> <br />
<asp:Label ID="Label3" runat="server" Text="Enter Marks:"
CssClass="Common"></asp:Label>
<asp:TextBox ID="TextBox3" runat="server" CssClass="TxtStyle"></asp:TextBox> <br
/><br />
<asp:Button ID="Button1" runat="server" Text="Submit" CssClass="BtnStyle" />
<asp:Button ID="Button2" runat="server" Text="Clear" CssClass="BtnStyle" /> <h1><a
href="bscit.aspx"</a>Bsc IT</h1>
<h2><a href ="baf.aspx"</a>BAF</h2>
<h3><a href ="bms.aspx"</a>BMS</h3>
<a href="http://www.vsit.edu.in/">
Contact us</a>
<br /><br /><br /><br />
</div>
</form>
</body>
```

```
</html>
```

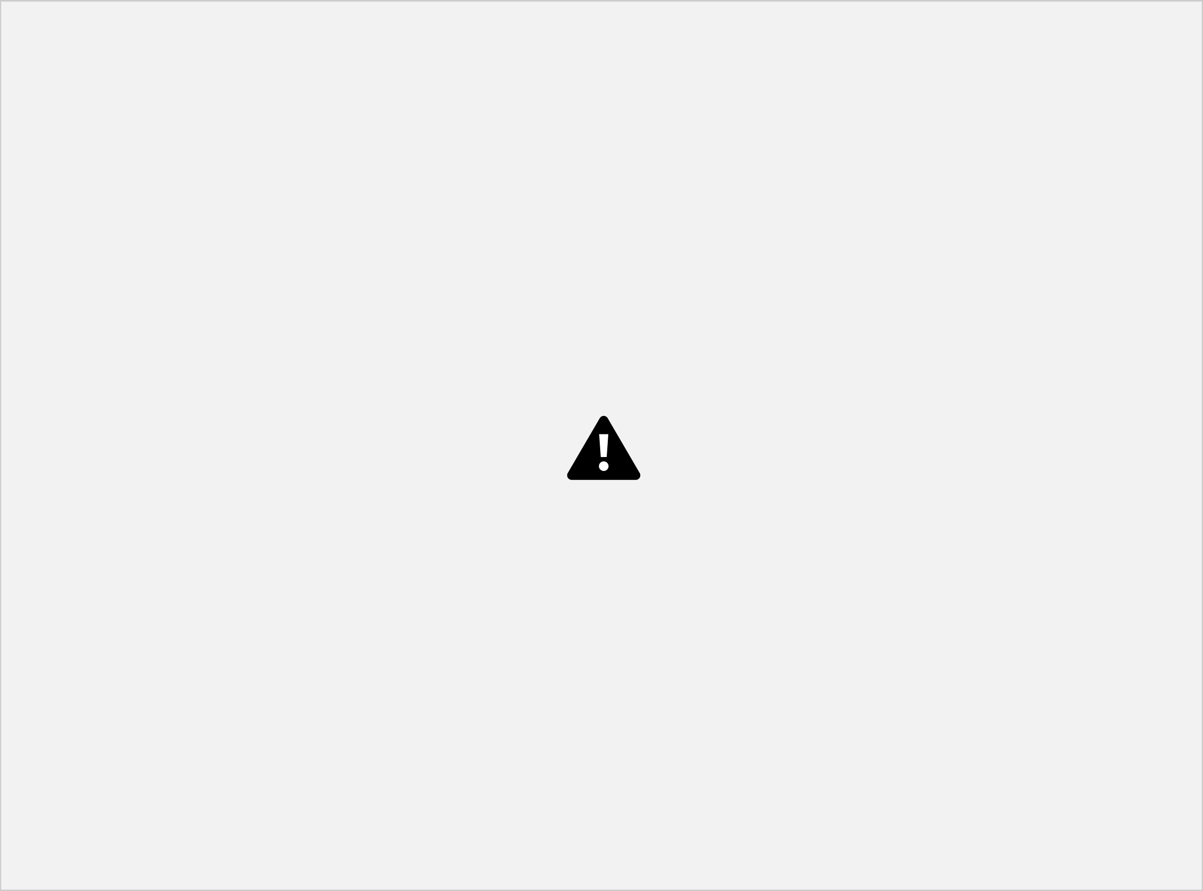
BROWSER OUTPUT:



PRACTICAL NO. : 05(1)

AIM: Programs using ASP.NET Server controls.
Create the application that accepts name, password ,age , email id, and user id. Allthe information entry is compulsory. Password should be reconfirmed. Age should be within 21 to 30. Email id should be valid. User id should have at least a capital letter and digit as well as length should be between 7 and 20 characters.

DESIGN:



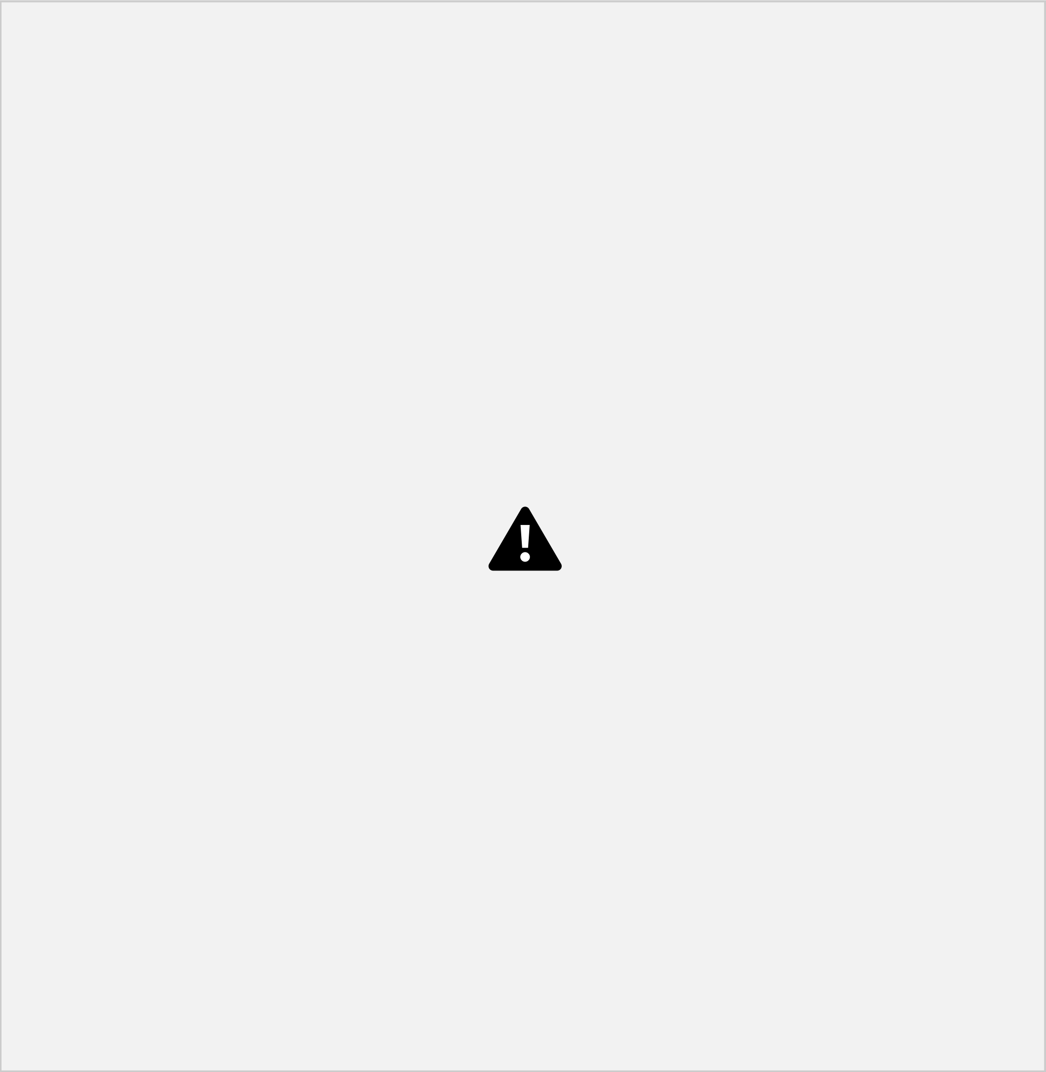
<u>CODE</u>:

ValidateControlForm.aspx

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace ValidationControl
{
 public partial class ValidationControlForm : System.Web.UI.Page
 {
 protected void Page_Load(object sender, EventArgs e)
 {
```

```
 }
 protected void CustomValidator1_ServerValidate(object source,
ServerValidateEventArgs args)
 {
 string str = args.Value;
 args.IsValid = false;
 if (str.Length < 7 || str.Length > 20)
 {

 return;
 }
 bool capital = false;
 foreach (char ch in str)
 {
 if (ch >= 'A' && ch <= 'Z')
 {
 capital = true;
 break;
 }
 }
 if (!capital)
 return;
 bool digit = false;
 foreach (char ch in str)
 {
 if (ch >= '0' && ch <= '9')
 {
 digit = true;
 break;
 }
 }
 if (!digit)
 return;
 args.IsValid = true;
 }
 protected void btnSubmit_Click(object sender, EventArgs e)  {
 }
 } }
```

OUTPUT:



PRACTICAL NO. : 05(2)

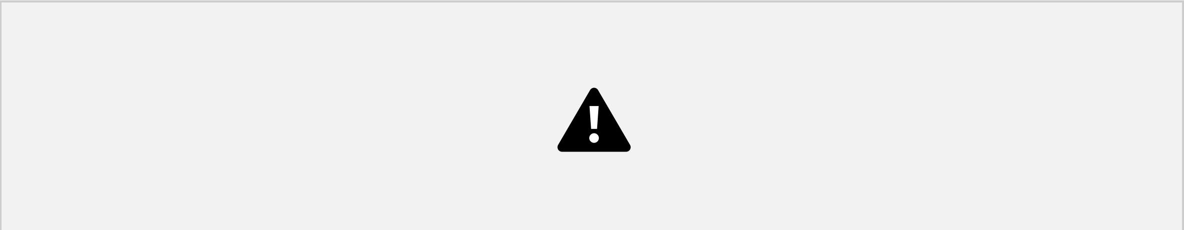
AIM: Programs using ASP.NET Server controls.
Create a website for a bank and include types of navigation.

DESIGN:

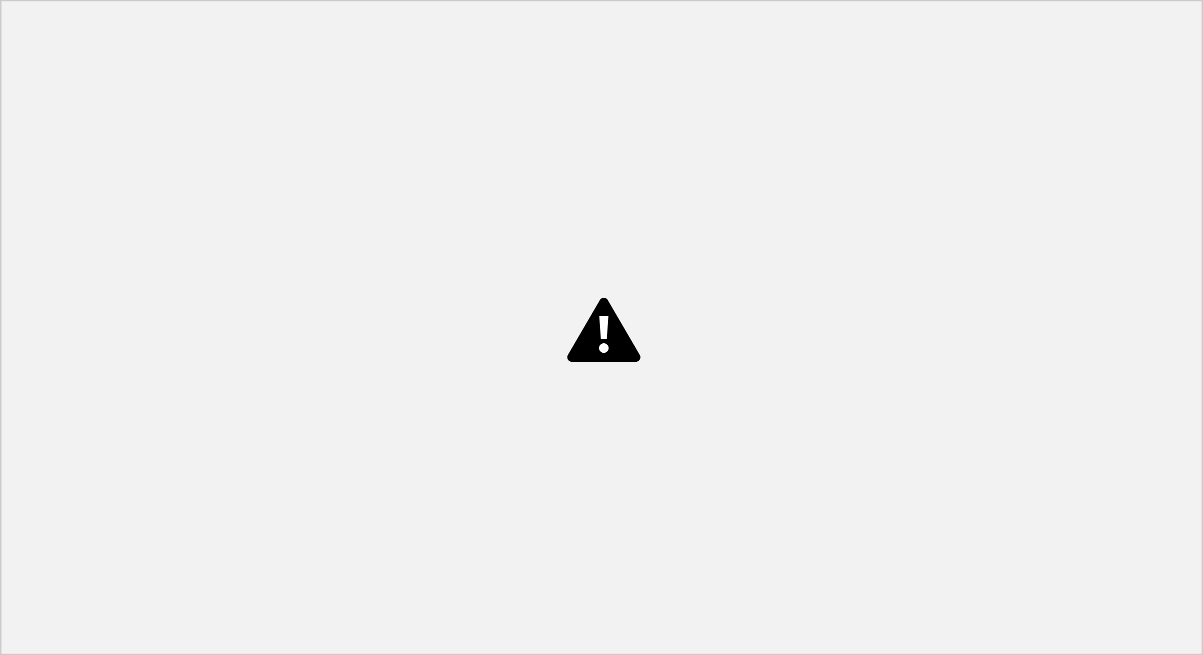
<u>CODE</u>:
Web.sitemap

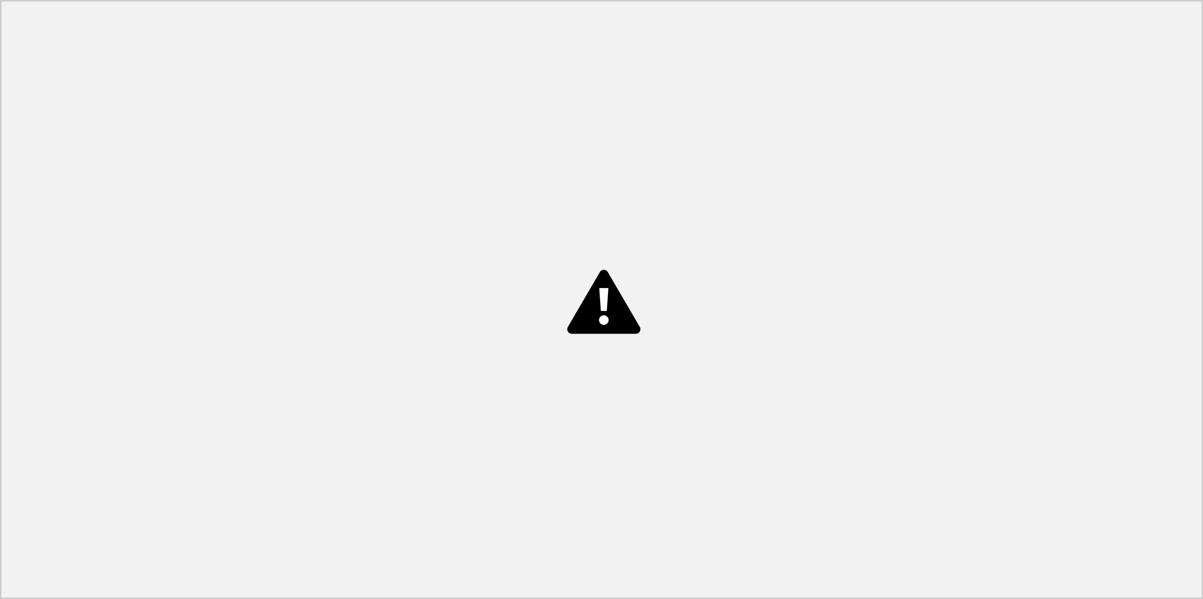
```
<?xml version="1.0" encoding="utf-8" ?>
<siteMap xmlns="http://schemas.microsoft.com/AspNet/SiteMap-File-1.0" >
<siteMapNode url="~\" title="Local bank of india" description="Online Banking">
<siteMapNode url="default.aspx" title="Home" description="Go to the homepage" />
<siteMapNode url="about.aspx" title="About Us" description="About us"/>
<siteMapNode url="statistics.aspx" title="Statistics" description="Statistics">
<siteMapNode url="data.aspx" title="Data Releases" description="Data Releases"/>
<siteMapNode url="database.aspx" title="Database on Indian Economy"
description="Economy of India"/>
 <siteMapNode url="service.aspx" title="Service" description="Service Information"/>
</siteMapNode>
 <siteMapNode url="publications.aspx" title="Publications" description="Publications">
<siteMapNode url="annual.aspx" title="Annual" description="Annual"/>  <siteMapNode
url="monthly.aspx" title="Monthly" description="Monthly"/>  <siteMapNode
url="reports.aspx" title="Reports" description="Reports"/>  </siteMapNode>
 </siteMapNode>
</siteMap>
```

<u>OUTPUT:</u> (sitemap)



OUTPUT: (Website form Tree view Controls)





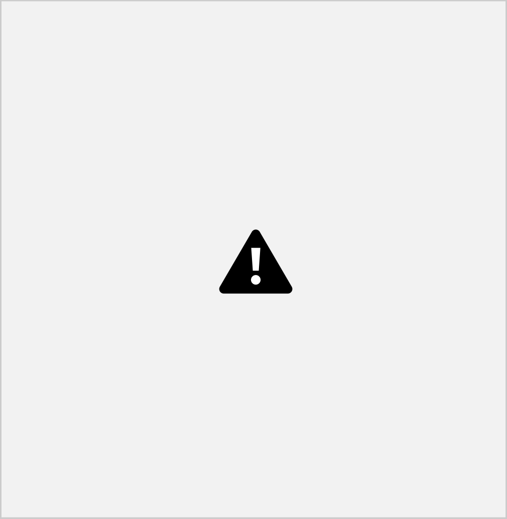
PRACTICAL NO. : 06(1)

AIM: Database programs with ASP.NET and ADO.NET.
Create a Web App to display all the Empname and Deptid of the employee from the database using SQL source control and bind it to GridView . Database fields are(DeptId, DeptName, EmpName, Salary).

Steps:

1. File□new□website□empty website□name it□ok
2. Right click on website made□add new item□sql server database□name it□add□yes
3. Right click on table In server explorer□add new table□add columns□save the table 4.
Right click on table made □show table data□add values
5. Right click on website□add new item□webform□name it
6. Go to design view
7. Add a gridview□below that add sqldatasource
8. Configure sqldatasource□then add it to the gridview
9. Go to gridview menu enable sorting

DESIGN:



OUTPUT:

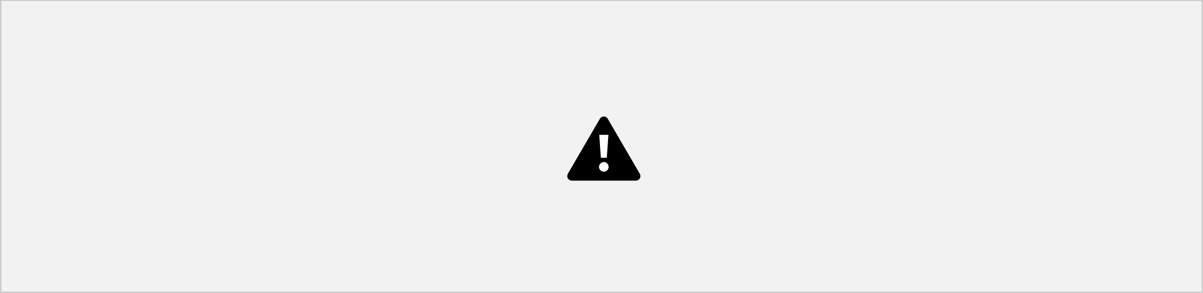
PRACTICAL NO. : 06(2)

AIM: Database programs with ASP.NET and ADO.NET
Create a Login Module which adds Username and Password in the database. Username in the database should be a primary key.

Steps2:

1. Filenewwebsiteempty websitename itok
2. Right click on website madeadd new itemsql server databasename itaddyes
3. Right click on table In server exploreradd new tableadd columnssave the table 4.
Right click on table made show table dataadd values
5. Right click on websiteadd new itemwebformname it
6. Go to design viewadd form for login
7. Add sqldatasourceconfigure it
8. Write code

DESIGN:



CODE:
LoginModule.aspx

```
using System;
using System.Collections.Generic;
using System.Linq;

using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
public partial class LoginModule : System.Web.UI.Page
{
 protected void Page_Load(object sender, EventArgs e)
 {
 }
 protected void btnSignUp_Click(object sender, EventArgs e)
 {
 SqlDataSource1.InsertParameters["Username"].DefaultValue = txtUserName.Text;
SqlDataSource1.InsertParameters["Password"].DefaultValue = txtPassword.Text;
SqlDataSource1.Insert();
 lblResult.Text = "User Added";
 }
 }
```

OUTPUT:

PRACTICAL NO. : 06(3)

AIM: Database programs with ASP.NET and ADO.NET

Create a web application to insert 3 records inside the SQL database table having following fields(DeptId, DeptName, EmpName, Salary). Update the salary for any one employee and increment it to 15% of the present salary. Perform delete operation on 1 row of the database table.

Steps:

9. Filenewwebsiteempty websitename itok
10. Right click on website madeadd new itemsql server databasename itaddyes
11. Right click on table In server exploreradd new tableadd columnssave the table
12. Right click on table made show table dataadd values
13. Right click on websiteadd new itemwebformname it
14. Go to design viewadd necessary form
15. Add a grid view below the formbelow that add sqldatasource
16. Configure sqldatasourcethen add it to the gridview
17. Go to grid view menuadd columnsselect command fieldcheck on delete and editok

10.Double click on buttonwrite code.

DESIGN:

CODE:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

public partial class LoginModule : System.Web.UI.Page
{
 protected void Page_Load(object sender, EventArgs e)
 {
 }
 protected void btnSignUp_Click(object sender, EventArgs e)
 {

 SqlDataSource1.InsertParameters["Username"].DefaultValue = txtUserName.Text;
SqlDataSource1.InsertParameters["Password"].DefaultValue = txtPassword.Text;
SqlDataSource1.Insert();
Textbox1.Text=”’;
 Textbox2.Text=”’;
 }
}
```

OUTPUT: