Practical No.: 1

AIM:- Working with basic C# and ASP .NET

A) Create an application that obtains four int values from the user and displays the product.

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
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);
      Console.ReadKey();
```

A) OUTPUT:-

Enter number 1: 6

Enter number 2: 5

Enter number 3: 4

Enter number 4: 3

6*5*4*3=360

B) Create an application to demonstrate string operations.

```
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 C) Create an application that receives the (Student Id, Student Name, Course Name, Date of Birth) information from a set of students. The application should also display the information of all the students once the data entered.

```
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);
      } } } 
1)C)
      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
```

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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

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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

D) Create an application to demonstrate following operations

```
[i] Fibonacci Series
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++;
```

num = int.Parse(Console.ReadLine());

if ((num % counter) == 0)

{

for (counter = 2; counter <= num / 2; counter++)

(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

[iii] 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");
```

OUTPUT:

Enter a character: a

a is vowel

Enter a character: p

p is not a vowel

[iv]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);
}
}
```

OUTPUT:

Shield

Evaluation

DX

[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.: 2

AIM: Working with Object Oriented C# and ASP .NET

- A) Create simple application to perform following operations.
 - [i] Finding Factorial Value

```
using System.Collections.Generic;
using System.Ling;
using System.Text;
namespace factorial
  class Program
    static void Main(string[] args)
    {
      int i, number, fact;
      Console.WriteLine("Enter the Number");
      number = int.Parse(Console.ReadLine());
      fact = number;
      for (i = number - 1; i >= 1; i--)
        fact = fact * i;
      Console.WriteLine("\nFactorial of Given Number is: "+fact);
      Console.ReadLine();
    }
Output:
Enter the number: - 6
Factorial of given number is.:- 720
```

[ii] Money Conversion

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
namespace CurrencyConversion
class Program
static void Main(string[] args)
int choice;
Console.WriteLine("Enter your Choice:\n 1- Dollar to Rupee \n 2-
Euro to Rupee \n 3- Malaysian
Ringgit to Rupee ");
choice = int.Parse(Console.ReadLine());
switch (choice)
case 1:
Double dollar, rupee, val;
Console.WriteLine("Enter the Dollar Amount :");
dollar = Double.Parse(Console.ReadLine());
Console.WriteLine("Enter the Dollar Value :");
val = double.Parse(Console.ReadLine());
rupee = dollar * val;
Console.WriteLine("{0} Dollar Equals {1} Rupees", dollar,
rupee);
break;
case 2:
Double Euro, rupe, valu;
Console.WriteLine("Enter the Euro Amount :");
Euro = Double.Parse(Console.ReadLine());
```

```
Console.WriteLine("Enter the Euro Value :");
valu = double.Parse(Console.ReadLine());
rupe = Euro * valu;
Console.WriteLine("{0} Euro Equals {1} Rupees", Euro, rupe);
break;
case 3:
Double ringit, rup, value;
Console.WriteLine("Enter the Ringgit Amount :");
ringit = Double.Parse(Console.ReadLine());
Console.WriteLine("Enter the Ringgit Value :");
value = double.Parse(Console.ReadLine());
rup = ringit * value;
Console.WriteLine("{0} Malaysian Ringgit Equals {1} Rupees",
ringit, rup);
break;
Console.ReadLine();
2)A)[ii]
```

```
Inter your Choice:
1- Dallar to Rupee
2 Euro to Rupee
3- Malaysian Ringgit to Rupee
1 Enter the Dollar Amount:
1 Dollar Equals 72 Rupees
```

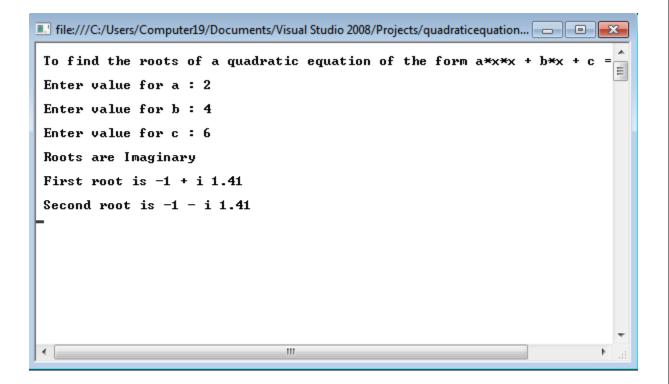
[iii] Quadratic Equation

```
using System;
namespace example
  class Quadraticroots
    double a, b, c;
    public void read()
      Console.WriteLine(" \n To find the roots of a quadratic equation of
the form a^*x^*x + b^*x + c = 0");
      Console.Write("\n Enter value for a:");
      a = double.Parse(Console.ReadLine());
      Console.Write("\n Enter value for b : ");
      b = double.Parse(Console.ReadLine());
      Console.Write("\n Enter value for c : ");
      c = double.Parse(Console.ReadLine());
    }
    public void compute()
       int m;
      double r1, r2, d1;
      d1 = b * b - 4 * a * c;
       if (a == 0)
         m = 1;
      else if (d1 > 0)
         m = 2;
      else if (d1 == 0)
         m = 3;
       else
         m = 4;
      switch (m)
```

```
case 1: Console.WriteLine("\n Not a Quadratic equation, Linear
equation");
           Console.ReadLine();
           break;
         case 2: Console.WriteLine("\n Roots are Real and Distinct");
           r1 = (-b + Math.Sqrt(d1)) / (2 * a);
           r2 = (-b - Math.Sqrt(d1)) / (2 * a);
           Console.WriteLine("\n First root is {0:#.##}", r1);
           Console.WriteLine("\n Second root is {0:#.##}", r2);
           Console.ReadLine();
           break;
         case 3: Console.WriteLine("\n Roots are Real and Equal");
           r1 = r2 = (-b) / (2 * a);
           Console.WriteLine("\n First root is {0:#.##}", r1);
           Console.WriteLine("\n Second root is {0:#.##}", r2);
           Console.ReadLine();
           break;
         case 4: Console.WriteLine("\n Roots are Imaginary");
           r1 = (-b) / (2 * a);
           r2 = Math.Sqrt(-d1) / (2 * a);
           Console.WriteLine("\n First root is {0:#.##} + i {1:#.##}", r1, r2);
           Console.WriteLine("\n Second root is {0:#.##} - i {1:#.##}", r1,
r2);
           Console.ReadLine();
           break;
  }
  class Roots
  {
    public static void Main()
      Quadraticroots qr = new Quadraticroots();
      qr.read();
```

```
qr.compute();
}
}
```

2)A)[iii]



[iv] Temperature Conversion

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

namespace temperatureconversion
{
    class Program
    {
        static void Main(string[] args)
        {
            int celsius, faren;
            Console.WriteLine("Enter the Temperature in Celsius(°C):");
            celsius = int.Parse(Console.ReadLine());
            faren = (celsius * 9) / 5 + 32;
            Console.WriteLine("OTemperature in Fahrenheit is(°F): " + faren);
            Console.ReadLine();
        }
    }
}
2)A)[iv]
```

```
Finter the Temperature in Celsius(°C):
20
@Temperature in Fahrenheit is(°F): 68
```

B) Create simple application to demonstrate use of following concepts.

```
[i] Function Overloading
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);
```

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}	
}	
}	
OUTPUT:	
N=20 M=10	
F1=20.6 F2=10.5	

[ii] Inheritance

(a) Single Inheritance

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

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();
}}}
OUTPUT:
Enter material: wood
Enter price: 1220
Enter height: 35
Enter surface area: 26
Material: wood
Price: 1220
Height: 35
Surface Area: 26
```

[ii](b) Multiple inheritance

```
CODE:
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
```

```
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

(ii)[d] Multilevel Inheritance

```
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

[iii] Constructor Overloading

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();
  }
}
```

OUTPUT:

Enter basic salary: 52000

Enter travelling allowance: 3000

Basic salary: 52000

Dearness allowence : 9000 Housing rent allowence : 6000 Travelling allowence : 3000

Gross Salary: 70000

(iv) Interfaces

ODDEVEN.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
namespace InterFaceDemo {
  interface IOne {
    void ONE(); //Pure Abstract Method Signature
  }
  interface ITwo {
    void TWO();
  }
  interface IThree: IOne {
    void THREE();
  }
```

```
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  interface IFour {
    void FOUR();
  }
  interface IFive: IThree {
    void FIVE();
  }
  interface IEVEN: ITwo, IFour {}
  class ODDEVEN: IEVEN, IFive //Must Implement all the abstract method, in
Derived class.
  {
    public void ONE() //Implementation of Abstract Method.
    {
      Console.WriteLine("This is ONE");
    }
    public void TWO() {
      Console.WriteLine("This is TWO");
    }
    public void THREE() {
      Console.WriteLine("This is THERE");
    }
    public void FOUR() {
      Console.WriteLine("This is FOUR");
```

```
public void FIVE() {
      Console.WriteLine("This is FIVE");
    }
Program.cs
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
namespace InterFaceDemo {
  class Program {
    static void Main(string[] args) {
      Console.WriteLine("This is ODD");
      IFive obj1 = new ODDEVEN();
      obj1.ONE();
      obj1.THREE();
      obj1.FIVE();
      Console.WriteLine("\n\nThis is EVEN");
      IEVEN obj2 = new ODDEVEN();
      obj2.TWO();
```

```
obj2.FOUR();
Console.ReadLine();
}
}
```

(iv) output-interface

```
This is ODD
This is ONE
This is THERE
This is FIVE

This is EVEN
This is TWO
This is FOUR
```

- (C) Create simple application to demonstrate use of following concepts
 - [i] Using Delegates and events

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()
```

class Program

```
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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
[ii] Exception handling
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
```

Page **42** of **91**

Practical No.: 3

AIM:- Working with Web Forms and Controls.

A)Demonstrate the use of Calendar control to perform following operations.

- a) Display messages in a calendar control
- b) Display vacation in a calendarcontrol
- c) Selected day in a calendar control using style
- d) Difference between two calendardates

```
Calender properties set for this example:
<asp:Calendar ID="Calendar1" runat="server" BackColor="#FFFFCC"
BorderColor="#FFCC66" BorderWidth="1px" DayNameFormat="Shortest"
Font-Names="Verdana" Font-Size="8pt" ForeColor="#663399"
Height="200px"
NextPrevFormat="ShortMonth" OnDayRender="Calendar1 DayRender"
ShowGridLines="True" Width="300px"
OnSelectionChanged="Calendar1 SelectionChanged" >
<DayHeaderStyle BackColor="#FFCC66" Font-Bold="True" Height="1px" />
<NextPrevStyle BorderStyle="Solid" BorderWidth="2px" Font-Size="9pt"
ForeColor="#FFFCC" />
<OtherMonthDayStyle BackColor="#FFCC99" BorderStyle="Solid"</p>
ForeColor="#CC9966" />
<SelectedDayStyle BackColor="Red" Font-Bold="True" />
<SelectorStyle BackColor="#FFCC66" />
<TitleStyle BackColor="#990000" Font-Bold="True" Font-Size="9pt"
ForeColor="#FFFFCC" />
<TodayDayStyle BackColor="#FFCC66" ForeColor="White" />
<WeekendDayStyle Height="50px" />
</asp:Calendar>
```

```
calndrCtrl.aspx.cs
protected void btnResult Click(object sender, EventArgs e)
Calendar1.Caption = "SAMBARE";
Calendar1.FirstDayOfWeek = FirstDayOfWeek.Sunday;
Calendar1.NextPrevFormat = NextPrevFormat.ShortMonth;
Calendar1.TitleFormat = TitleFormat.Month;
Label2.Text = "Todays Date"+Calendar1.TodaysDate.ToShortDateString();
Label3.Text = "Ganpati Vacation Start: 9-13-2018";
TimeSpan d = new DateTime(2018, 9, 13) - DateTime.Now;
Label4.Text = "Days Remaining For Ganpati Vacation:"+d.Days.ToString();
TimeSpan d1 = new DateTime(2018, 12, 31) - DateTime.Now;
Label5.Text = "Days Remaining for New Year:"+d1.Days.ToString();
if (Calendar1.SelectedDate.ToShortDateString() == "9-13-2018")
Label3.Text = "<b>Ganpati Festival Start</b>";
if (Calendar1.SelectedDate.ToShortDateString() == "9-23-2018")
Label3.Text = "<b>Ganpati Festival End</b>";
protected void Calendar1 DayRender(object sender,
System.Web.UI.WebControls.DayRenderEventArgs e)
if (e.Day.Date.Day == 5 \&\& e.Day.Date.Month == 9)
e.Cell.BackColor = System.Drawing.Color.Yellow;
Label lbl = new Label();
lbl.Text = "<br>Teachers Day!";
e.Cell.Controls.Add(lbl);
Image g1 = new Image();
g1.ImageUrl = "td.jpg";
g1.Height = 20;
g1.Width = 20;
e.Cell.Controls.Add(g1);
}
```

```
if (e.Day.Date.Day == 13 && e.Day.Date.Month == 9)
Calendar1.SelectedDate = new DateTime(2018, 9, 12);
Calendar1.SelectedDates.SelectRange(Calendar1.SelectedDate,
Calendar1.SelectedDate.AddDays(10));
Label lbl1 = new Label();
lbl1.Text = "<br>Ganpati!";
e.Cell.Controls.Add(lbl1);
protected void btnReset_Click(object sender, EventArgs e)
Label1.Text = "";
Label2.Text = "";
Label3.Text = "";
Label4.Text = "";
Label5.Text = "";
Calendar1.SelectedDates.Clear();
protected void Calendar1 SelectionChanged(object sender, EventArgs e)
Label1.Text = "Your Selected Date:" +
Calendar1.SelectedDate.Date.ToString();
```

3)A) **OUTPUT:**-



Your selected date : 27-08-2018 00:00:00 Today's Date : 15-07-2018

Ganpati Vacation Start: 9-13-2018 Days Remaining For Ganpati Vacation : 59 Days remeaning for new year : 168

Result Reset

- B) Demonstrate the use of Treeview control perform following operations.
- a) Treeview control and datalist b) Treeview operations

Add XML File

Website -> Add -> XML File and Name it 'stdetail'.

```
stdetail.xml
```

```
<?xml version="1.0" encoding="utf-8" ?>
```

<studentdetail>

<student>

<sid>1</sid>

<sname>Tushar</sname>

<sclass>TYIT</sclass>

</student>

<student>

<sid>2</sid>

<sname>Sonali</sname>

<sclass>TYCS</sclass>

</student>

<student>

<sid>3</sid>

<sname>Yashashree</sname>

<sclass>TYIT</sclass>

</student>

<student>

<sid>4</sid>

<sname>Vedshree</sname>

<sclass>TYCS</sclass>

</student>

</studentdetail>

Default2.aspx

<form id="form1" runat="server">

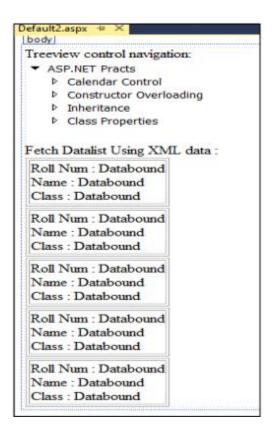
<div>

Treeview control navigation:<asp:TreeView ID = "TreeView1" runat =

"server" Width =

"150px" ImageSet="Arrows">

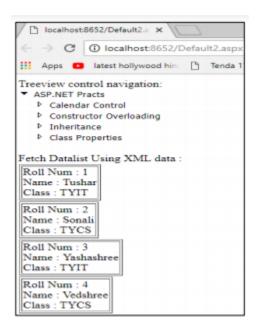
```
<HoverNodeStyle Font-Underline="True" ForeColor="#5555DD" />
<Nodes>
<asp:TreeNode Text = "ASP.NET Practs" Value = "New Node">
<asp:TreeNode Text = "Calendar Control" Value = "RED"</pre>
NavigateUrl="~/calndrCtrl.aspx">
</asp:TreeNode>
<asp:TreeNode Text = "Constructor Overloading" Value = "GREEN"</pre>
NavigateUrl="~/clsconstrc.aspx"></asp:TreeNode>
<asp:TreeNode NavigateUrl="~/singleInh.aspx" Text="Inheritance"
Value="BLUE"></asp:TreeNode>
<asp:TreeNode NavigateUrl="~/clsProp.aspx" Text="Class Properties"
Value="Class
Properties"></asp:TreeNode>
</asp:TreeNode>
</Nodes>
<NodeStyle Font-Names="Tahoma" Font-Size="10pt" ForeColor="Black"
HorizontalPadding="5px" NodeSpacing="0px" VerticalPadding="0px" />
<ParentNodeStyle Font-Bold="False" />
<SelectedNodeStyle Font-Underline="True" ForeColor="#5555DD"</p>
HorizontalPadding="0px" VerticalPadding="0px" />
</asp:TreeView>
<br />
Fetch Datalist Using XML data : </div>
<asp:DataList ID="DataList1" runat="server">
<ItemTemplate>
Roll Num : <%# Eval("sid") %><br />
Name : <%# Eval("sname") %><br />
Class: <%# Eval("sclass")%>
</ltemTemplate>
</asp:DataList>
```



Default2.aspx.cs

```
using System.Data;
public partial class _Default : System.Web.UI.Page
protected void Page Load(object sender, EventArgs e)
if (!IsPostBack)
BindData();
protected void BindData()
DataSet ds = new DataSet();
ds.ReadXml(Server.MapPath("stdetail.xml"));
if (ds != null && ds.HasChanges())
DataList1.DataSource = ds;
DataList1.DataBind();
else
DataList1.DataBind();
```

3)B)b) **OUTPUT:-**



Practical No.: 4

AIM: Working with form controls

A) Create a web form to demonstrate the Adrotator Control.

```
XML File
<Advertisements>
<Ad>
<ImageUrl>rose1.jpg</ImageUrl>
<NavigateUrl>http://www.1800flowers.com</NavigateUrl>
<AlternateText>
Order flowers, roses, gifts and more
</AlternateText>
<Impressions>20</Impressions>
<Keyword>flowers</Keyword>
</Ad>
<br/>Ad>
<lmageUrl>rose2.jpg</lmageUrl>
<NavigateUrl>http://www.babybouquets.com.au</NavigateUrl>
<AlternateText>Order roses and flowers</AlternateText>
<Impressions>20</Impressions>
<Keyword>gifts</Keyword>
</Ad>
<Ad>
<ImageUrl>rose3.jpeg</ImageUrl>
<NavigateUrl>http://www.flowers2moscow.com</NavigateUrl>
<AlternateText>Send flowers to Russia</AlternateText>
<Impressions>20</Impressions>
<Keyword>russia</Keyword>
</Ad>
</Advertisements>
```

Default.aspx

<asp:AdRotator ID="AdRotator1" runat="server"

DataSourceID="XmlDataSource1" />

<asp:XmlDataSource ID="XmlDataSource1" runat="server"

DataFile="~/ADFILE.xml"></asp:XmlDataSource>

OUTPUT:



B) Create web form to demonstrate use User Controls.

```
MyUserControl.ascx
<%@ Control Language="C#" AutoEventWireup="true"</pre>
CodeFile="MyUserControl.ascx.cs" Inherits="MyUserControl" %>
<h3>This is User Contro1 </h3>
Name
<asp:TextBox ID="txtName" runat="server"></asp:TextBox>
City
<asp:TextBox ID="txtcity" runat="server"></asp:TextBox>
<
<
<asp:Button ID="txtSave" runat="server" Text="Save"
onclick="txtSave Click" />
<br />
<asp:Label ID="Label1" runat="server" ForeColor="White" Text="
"></asp:Label>
MyUserControl.ascx.cs
```

protected void txtSave Click(object sender, EventArgs e)

```
Label1.Text = "Your Name is " + txtName.Text + " and you are from " +
txtcity.Text;
UserControlDisplay.aspx
<%@ Page Language="C#" AutoEventWireup="true"</pre>
CodeFile="UserControlDisplay.aspx.cs" Inherits="UserControlDisplay"
%>
<@@ Register Src="~/MyUserControl.ascx" TagPrefix="uc"
TagName="Student"%>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
<title></title>
</head>
<body>
<form id="form1" runat="server">
<div>
<uc:Student ID="studentcontrol" runat="server" />
</div>
</form>
</body>
</html>
OUTPUT:
```



Practical No.: 5

AIM:- Working with Navigation, Beautification and Master page

A) Create a web application to demonstrate use of Master Page withapplying Styles and Themes for page beautification.

MasterPage.master

```
<%@ Master Language="C#" AutoEventWireup="true"</pre>
CodeFile="MasterPage.master.cs"
Inherits="MasterPage" %>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
<title>Master Page Demo</title>
<link href="css/my.css" rel="stylesheet" />
<asp:ContentPlaceHolder ID="head" runat="server">
</asp:ContentPlaceHolder>
<style type="text/css">
.auto-style1 {
position: absolute;
top: 373px;
left: 1028px;
bottom: 303px;
}
.auto-style2 {
position: absolute;
top: 537px;
left: 1016px;
z-index: 1;
</style>
</head>
<body>
```

```
<!DOCTYPE html>
<form id="form1" runat="server">
<html>
<head>
<title>Master</title>
<link rel="stylesheet" type="text/css" href="StyleSheet.css">
</head>
<body>
<header id="header">
<h1>Demo Of Master Page</h1>
</header>
<nav id="nav">
ul>
<a href="home.aspx">Insight</a>
<a href="#">Products</a>
<a href="#">Downloads</a>
<a href="#">Contact Us</a>
</nav>
<aside id="side">
<h1>Info</h1>
<a href="#">Product Type 1</a>
<a href="#">Product Type 2</a>
<a href="#">Product Type 3<a href="#"><asp:ScriptManager</a>
ID="ScriptManager1"
runat="server">
</asp:ScriptManager>
</a>
<asp:Button ID="Button2" runat="server" CssClass="auto-style1"
style="z-index: 1"
Text="Button" />
<asp:Button ID="Button1" runat="server" CssClass="auto-style2"
Text="Button" />
</aside>
<div id="con">
```

```
<asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server">
</asp:ContentPlaceHolder>
</div>
<footer id="footer">
copyright @Sambare
</footer>
</body>
</html>
</form>
</body>
</html>
MasterDisplay.aspx
<%@ Page Title="" Language="C#"</pre>
MasterPageFile="~/MasterPage.master"
AutoEventWireup="true" CodeFile="MasterDisplay.aspx.cs"
Inherits="MasterDisplay" %>
<asp:Content ID="Content1" ContentPlaceHolderID="head"
runat="server">
</asp:Content>
<asp:Content ID="Content2"
ContentPlaceHolderID="ContentPlaceHolder1" runat="server">
<h1>Home page</h1>
</asp:Content>
StyleSheet.css
#header{
color: blueviolet;
text-align: center;
font-size: 20px;
#nav{
background-color:darkseagreen;
padding: 5px;
```

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```
ul{
list-style-type: none;
li a {
color:crimson;
font-size: 30px;
column-width: 5%;
li
display: inline;
padding-left: 2px;
column-width: 20px;
}
a{
text-decoration: none;
margin-left:20px
}
li a:hover{
background-color: aqua;
color:coral;
padding:1%;
#side{
text-align: center;
float: right;
width: 15%;
padding-bottom: 79%;
background-color: #F1FAEE;
#article{
background-color: burlywood;
padding: 10px;
padding-bottom: 75%;
```

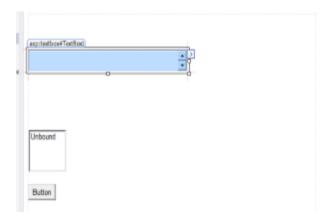
K.M.AGRAWAL COLLEGE

```
#footer{
background-color: #C7EFCF;
text-align:center;
padding-bottom: 5%;
font-size: 20px;
}
#con{
border:double;
border-color:burlywood;
}
```

Practical no 6:

6 a)Create a web application bind data in a multiline textbox by querying in another textbox.

Default.aspx (create a web page with following design):-



Web.config:-

<configuration>

<system.web>

<compilation debug="true" targetFramework="4.5.2" />

</system.web>

<connectionStrings>

<add name="connStr" connectionString="Data

Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename='C:\Users\tushars\Documen ts\Visual Studio

2015\WebSites\Workshop\App_Data\Database.mdf';Integrated Security=True" />

</connectionStrings>

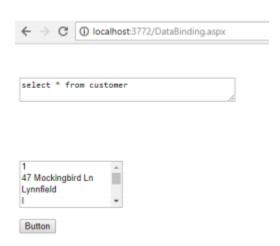
</configuration>

```
Default.aspx.cs:-
using System;
usingSystem.Collections.Generic;
usingSystem.Ling;
usingSystem.Web;
usingSystem.Web.UI;
usingSystem.Web.UI.WebControls;
usingSystem.Data;
usingSystem.Data.SqlClient;
usingSystem.Configuration;
public partial class DataBinding: System.Web.UI.Page
      protected void Page Load(object sender, EventArgs e)
      {
      protected void Button1_Click(object sender, EventArgs e)
      {
            stringconnStr =
            ConfigurationManager.ConnectionStrings["connStr"].ConnectionStrin
            g;
            SqlConnection con = new SqlConnection(connStr);
            con.Open();
            SqlCommandcmd = new SqlCommand(TextBox1.Text, con);
            SqlDataReader reader = cmd.ExecuteReader();
            ListBox1.Items.Clear();
```

```
while (reader.Read())
{
      //To add new blank line in the text area

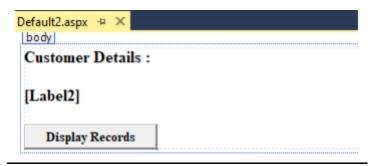
      for (int i = 0; i < reader.FieldCount - 1; i++)
      {
            ListBox1.Items.Add(reader[i].ToString());
      }
    }
    reader.Close();
    con.Close();
}</pre>
```

6a) output:-



6 b)Create a web application to display records by using database.

Default.aspx (create a web page with following design):-



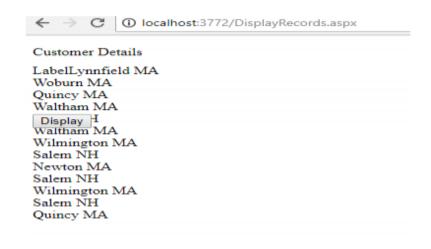
Default.aspx.cs:-

```
protected void Button1_Click(object sender, EventArgs e)
{
    stringconnStr =
        ConfigurationManager.ConnectionStrings["connStr"].ConnectionString;
        SqlConnection con = new SqlConnection(connStr);
        SqlCommandcmd = new SqlCommand("Select City, State from Customer", con);
        con.Open();
        SqlDataReader reader = cmd.ExecuteReader();
        while (reader.Read())
```

```
{
    Label1.Text += reader["City"].ToString() + " " +
    reader["State"].ToString() +
    "<br>";
}

reader.Close();
con.Close();
}
```

6 b) output



TYIT	ADVANCED WEB PROGRAMMING	MANUAL	K.M.AGRAWAL COLLEGE	
<u>6 c)</u>	output:-			
				Page 66 of 91



TXN_ID: 1 AMOUNT: 100

FUNDS_AVAIL_DATE: 1/15/2000 12:00:00 AM

TXN_DATE: 1/15/2000 12:00:00 AM

TXN_TYPE_CD: CDT ACCOUNT_ID: 1 EXECUTION_BRANCH_ID:

TELLER_EMP_ID:

TXN_ID: 2 AMOUNT: 100

FUNDS_AVAIL_DATE: 1/15/2000 12:00:00 AM

TXN_DATE: 1/15/2000 12:00:00 AM

TXN_TYPE_CD: CDT ACCOUNT_ID: 2

EXECUTION BRANCH ID:

TELLER_EMP_ID:

TXN_ID: 3 AMOUNT: 100

FUNDS_AVAIL_DATE: 6/30/2004 12:00:00 AM

TXN_DATE: 6/30/2004 12:00:00 AM

TXN_TYPE_CD: CDT ACCOUNT_ID: 3

EXECUTION_BRANCH_ID:

TELLER_EMP_ID:

6 (c): Demonstrate the use of Datalist link control.

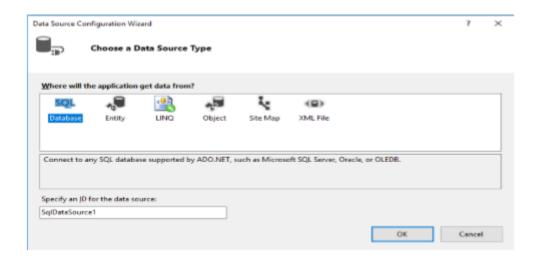
steps

- 1. Drag the Datalist control to our web page form toolbox->Data->Datalist.
- 2. Then select Choose Data Source Option and select <New Data Source>.



3.

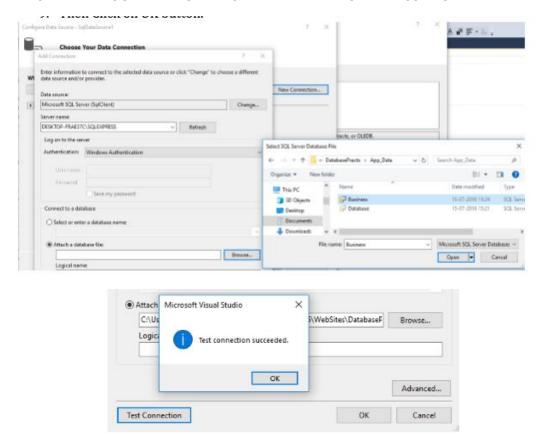
Now Select SQL Database from options and Click Ok button.



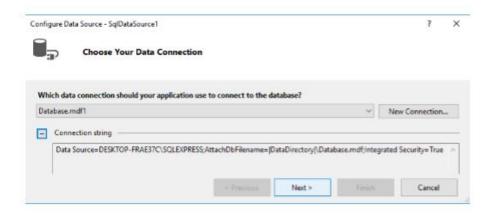
- 4. In next window click on New Connection button.
- 5. In add connection window Select the available SQL Server Name
- 6. Keep the Authentication as Windows Authentication.
- 7. After that select Attach a Database file radio button. Here we have to select the database that we have created in our application. (Usually it will be in Documents folder under Visual Studio 2015/ Websites).
- 8. After selection of Database file. We can also Test the connection.
- 9. Then Click on OK button.

TYIT ADVANCED WEB PROGRAMMING MANUAL

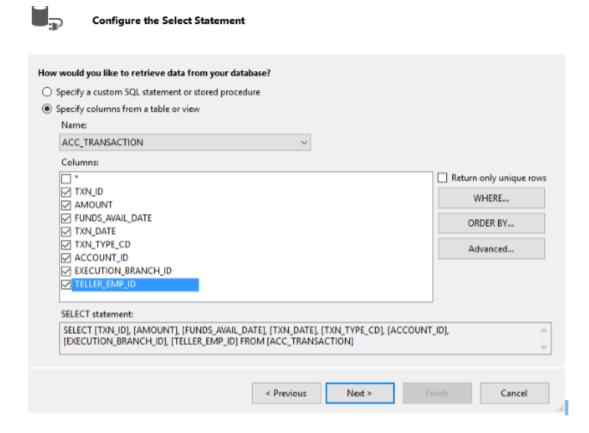
K.M.AGRAWAL COLLEGE



10. Once the Connection is made then click on Next button from Data Source Wizard.



- 11. Then wizard ask for saving the connection string in configuration file. If you already stored it web.config file then uncheck check box, if you haven't, then select the checkbook. Then click on next button.
- 12. The next screen gives option to configure the select statement. Here we can choose the table as well as configure the select statement as we need to display the data on web page.



13. In next screen we can test our query to check the output. Then Click on finish.

Practical no 7:-

7 (a): Create a web application to display Databinding using Dropdownlist control.

Default.aspx (create a web page with following design):-

- 1. Create a web page with DropDownList control, one Button and one Label control.
- 2. Use code to bind the data to DropDownList.

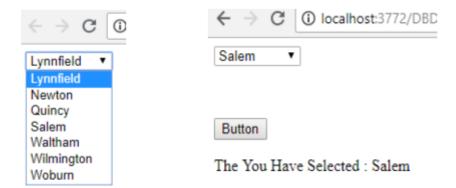


Default.aspx.cs:-

```
using System;
using System. Collections. Generic;
using System. Linq;
using System. Web;
using System. Web. UI;
using System. Web. UI. Web Controls;
using System. Data;
using System. Data. Sql Client;
using System. Configuration;
public partial class DBDrop Down: System. Web. UI. Page
{
    protected void Page_Load(object sender, Event Args e)
```

```
if (IsPostBack == false)
            {
                  stringconnStr =
                  ConfigurationManager.ConnectionStrings["connStr"].Connecti
                  onString;
                  SqlConnection con = new SqlConnection(connStr);
                  SqlCommandcmd = new SqlCommand("Select Distinct City
                  from Customer", con);
                  con.Open();
                  SqlDataReader reader = cmd.ExecuteReader();
                  DropDownList1.DataSource = reader;
                  DropDownList1.DataTextField = "City";
                  DropDownList1.DataBind();
                  reader.Close();
                  con.Close();
            }
      }
      protected void Button1 Click(object sender, EventArgs e)
      {
Label1.Text = "The You Have Selected: " + DropDownList1.SelectedValue;
```

7 a) output:-



7 (b): Create a web application for to display the phone no of an author using database.

Default.aspx (create a web page with following design):-

Create a web page with DropDownList, Button and with Label control as shown below.



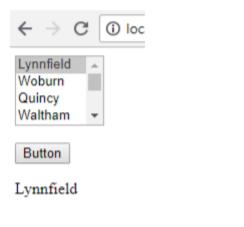
Default.aspx.cs:-

```
using System;
usingSystem.Collections.Generic;
usingSystem.Linq;
usingSystem.Web;
usingSystem.Web.UI;
usingSystem.Web.UI.WebControls;
usingSystem.Data;
usingSystem.Data;
usingSystem.Data.SqlClient;
usingSystem.Configuration;

public partial class PostalCodeByCity : System.Web.UI.Page
{
    protected void Button1_Click(object sender, EventArgs e)
    {
        Label1.Text = ListBox1.SelectedValue;
    }
}
```

```
}
      protected void Page Load(object sender, EventArgs e)
     {
            if (IsPostBack == false)
            {
                  stringconnStr =
                  ConfigurationManager.ConnectionStrings["connStr"].Connecti
                  onString;
                  SqlConnection con = new SqlConnection(connStr);
                  SqlCommandcmd = new SqlCommand("Select Distinct
                  POSTAL_CODE from Customer", con);
                  con.Open();
                  SqlDataReader reader = cmd.ExecuteReader();
                  ListBox1.DataSource = reader;
                  ListBox1.DataTextField = "City";
                                                       ListBox1.DataValueField
                  = "POSTAL_CODE";
                                           ListBox1.DataBind();
                  reader.Close();
                  con.Close();
      }
}
```

7b) output :-



.....

7 (c): Create a web application for inserting and deleting record from a database. (Using Execute-Non Query).

Default.aspx (create a web page with following design):-

Bank Addro	ess
Bank City	
Bank Branc	h Name
State	
ZIP Code	

Default.aspx.cs:-

```
TYIT ADVANCED WEB PROGRAMMING MANUAL
```

```
using System;
usingSystem.Collections.Generic;
usingSystem.Web;
usingSystem.Web.UI;
usingSystem.Web.UI.WebControls;
usingSystem.Data;
usingSystem.Data.SqlClient;
usingSystem.Configuration;
public partial class ExecuteNonQuery: System.Web.UI.Page
{
     protected void Button1 Click(object sender, EventArgs e)
     {
           stringconnStr =
           ConfigurationManager.ConnectionStrings["connStr"].ConnectionStrin
                  SqlConnection con = new SqlConnection(connStr);
           g;
           string InsertQuery = "insert into BRANCH values(@ADDRESS, @CITY,
           @NAME, @STATE, @ZIP CODE)";
           SqlCommandcmd = new SqlCommand(InsertQuery, con);
           cmd.Parameters.AddWithValue("@ADDRESS", TextBox1.Text);
           cmd.Parameters.AddWithValue("@CITY", TextBox2.Text);
           cmd.Parameters.AddWithValue("@NAME", TextBox3.Text);
           cmd.Parameters.AddWithValue("@STATE", TextBox4.Text);
           cmd.Parameters.AddWithValue("@ZIP CODE", TextBox5.Text);
           con.Open();
           cmd.ExecuteNonQuery();
           Label1.Text = "Record Inserted Successfuly.";
           con.Close();
     }
```

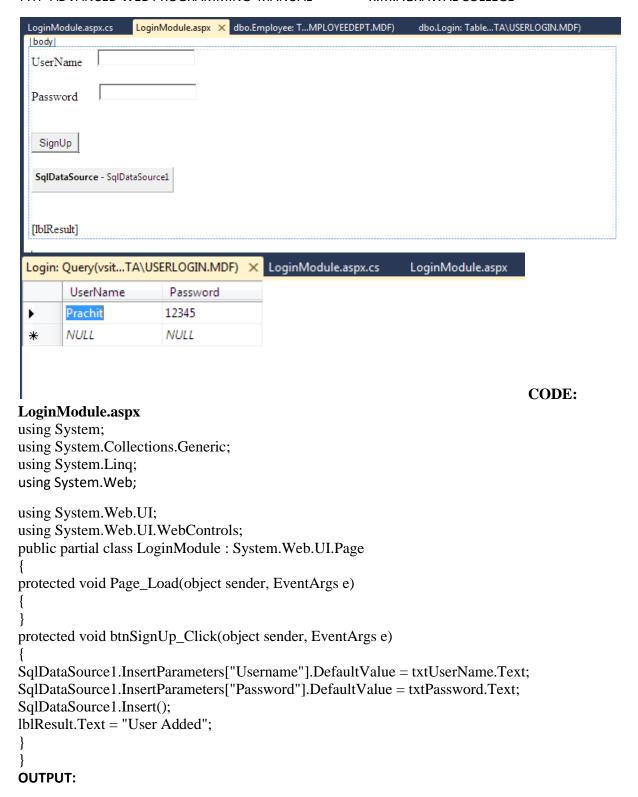
```
protected void Button2_Click(object sender, EventArgs e)
{
    stringconnStr =
        ConfigurationManager.ConnectionStrings["connStr"].ConnectionString;
        SqlConnection con = new SqlConnection(connStr);
    stringInsertQuery = "delete from branch where NAME=@NAME";
    SqlCommandcmd = new SqlCommand(InsertQuery, con);
    cmd.Parameters.AddWithValue("@NAME", TextBox1.Text);
    con.Open();
    cmd.ExecuteNonQuery();
    Label1.Text = "Record Deleted Successfuly.";
    con.Close(); } }
```

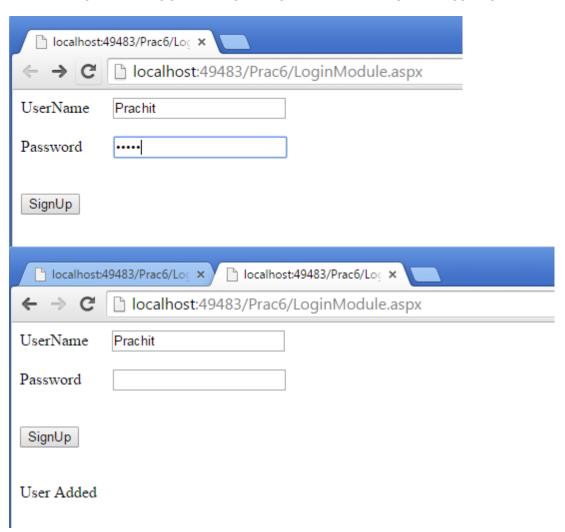
Practical no.8

8)a) Create a web application to demonstrate Various uses and properties of SQL Data Source.

- 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 → add form for login
- 7. Add sqldatasource → configure it
- 8. Write code

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8)b) Create a web application To demonstrate data binding using DetailsView and FormView control.

using System;
using System.Data;
using System.Data.SqlClient;
using System.Ling;

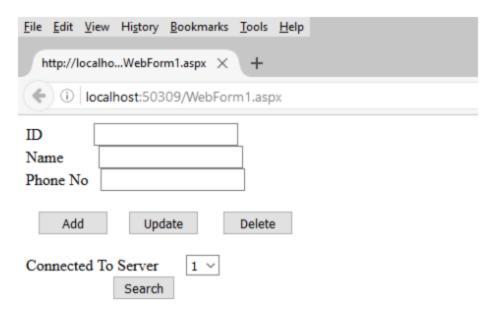
```
TYIT ADVANCED WEB PROGRAMMING MANUAL
```

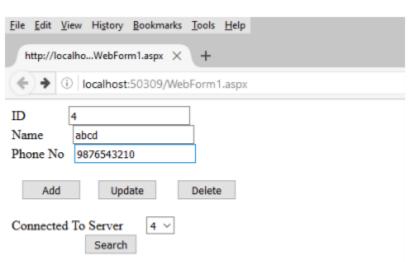
```
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Collections.Generic;
namespace WebApplication1
{
public partial class WebForm1 : System.Web.UI.Page
SqlDataAdapter da = new SqlDataAdapter();
SqlConnection con = new SqlConnection();
SqlCommand cmd = new SqlCommand();
DataSet ds = new DataSet();
string str;
protected void Page Load(object sender, EventArgs e)
con.ConnectionString = "Data
Source=(LocalDB)\\v11.0;AttachDbFilename=C:\\Users\\SAHIL\\Documents\\Stud
ents.mdf;Inte
grated Security=True;Connect Timeout=30";
con.Open();
Label4.Text = "Connected To Server";
con.Close();
}
protected void Button1 Click(object sender, EventArgs e)
```

```
TYIT ADVANCED WEB PROGRAMMING MANUAL
                                             K.M.AGRAWAL COLLEGE
str = "insert into stud_mast values(" + TextBox1.Text + " , ' " + TextBox2.Text + " ' ,
TextBox3.Text + ")";
con.Open();
cmd = new SqlCommand(str,con);
cmd.ExecuteNonQuery();
con.Close();
Label4.Text = " Save Successfull ";
TextBox1.Text = " ";
TextBox2.Text = " ";
TextBox3.Text = " ";
}
protected void DropDownList1 SelectedIndexChanged(object sender, EventArgs
e)
protected void Button4 Click(object sender, EventArgs e)
str = "select * from stud mast where stud id= " + DropDownList1.Text + " ";
da = new SqlDataAdapter(str, con);
ds = new DataSet();
da.Fill(ds,"stud_mast");
TextBox1.Text = ds.Tables["stud_mast"].Rows[0]["stud_id"].ToString();
TextBox2.Text = ds.Tables["stud_mast"].Rows[0]["stud_name"].ToString();
TextBox3.Text = ds.Tables["stud mast"].Rows[0]["phn no"].ToString();
```

Output:-

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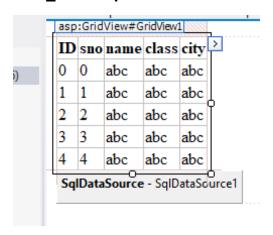




Practical no.9

Create a web application to demonstrate use of GridView button column and GridView events.

Grid_view.aspx:-

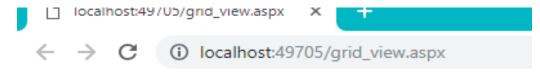


Grid_view.aspx.cs:-

GridView1.Rows[Convert.ToInt16(e.CommandArgument)].BackColor = System.Drawing.Color.Blue;

```
}
}
}
```

9) output:-



ID	sno	name	class	city
1	6	man	FYIT	nerul
2	3	nmj	SYIT	nerul
3	4	nmo	sycs	nerul
4	7	hj	hj	\mathbf{v}

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10 a) output:-

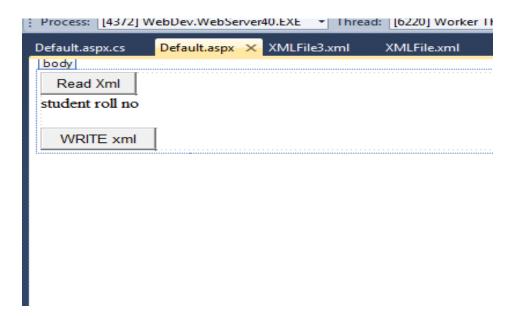


Read Xml student roll no WRITE xml

Practical no 10

10 a) Create a web application to demonstrate reading and writing operation with XML.

Default.aspx:-



Default.aspx.cs:-

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

public partial class _Default : System.Web.UI.Page
{
    protected void Button1_Click(object sender, EventArgs e)
    {
}
```

```
XmlReader red = XmlReader.Create(@"C:\Users\Admin\Documents\Visual Studio
2010\WebSites\WebSite24\XMLFile.xml");
while (red.Read())
    {
if (red.NodeType.Equals(XmlNodeType.Element))
string s = Label1.Text + "";
        Label1.Text = s + red.Name;
red.Close();
  }
protected void Button2_Click(object sender, EventArgs e)
XmlWriterSettings set = new XmlWriterSettings();
set.Indent = true;
XmlWriterwr = XmlWriter.Create(@"C:\Users\Admin\Documents\Visual Studio
2010\WebSites\WebSite24\XMLFile3.xml",set);
wr.WriteStartDocument();
wr.WriteComment("EXAMPLE OF WRITE A XML DOCUMENT");
wr.WriteStartElement("student");
wr.WriteEndElement();
  }
```

Practical 11:-

11) Programs to create and use DLL

```
Class1.cs:-
```

Consoleapplication5.cs:-

```
}
}

11) output:-
```

