

FYMCA SEM-II

AWT Lab

JOURNAL



**LATE BHAUSAHEB HIRAY S.S. TRUST'S INSTITUTE OF
COMPUTER APPLICATION**

ISO 9001-2008 CERTIFIED

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Date:

CERTIFICATE

This is to certify that Mr. Saurabh Bhausaheb Gawali

**Roll No. 2021105 is a student of MCA of 1st year Semester-II has
completed successfully full-semester practical/assignments of subject
AWT Lab for the academic year 2021 – 22**

Subject In-Charge

External Examiner

Director

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Practical No.1	Date : 28/04/2022
Aim:	To understand the class in c-sharp & inheritance in c-sharp
<p>Write program that will create class Person. Which has following data member</p> <ol style="list-style-type: none"> 1. Name 2. Age <p>Implements instance method, class method and constructor (overloading), properties of that class</p> <p>Instance methods are</p> <ol style="list-style-type: none"> 1. void getData() 2. void showData() 	
Source Code : #person.cs	
<pre> using System; using System.Collections.Generic; using System.Linq; using System.Text; using System.Threading.Tasks; namespace practical1 { internal class Person { //data members private string name; private int age; //Properties(getter and setter method) public string Name { get { return name; } set { name = value; } } public int Age { get { return age; } set { age = value; } } // non-parameterized constructor public Person() { name = "aaa"; age = 23; } //parameterized constructor public Person(String nam,int age) { this.name = nam; this.age = age; } //instance method1 public void getdata() { Console.WriteLine("Enter the Name:"); name =Console.ReadLine(); Console.WriteLine("Enter Age:"); age = Convert.ToInt16(Console.ReadLine()); } public void showdata() { Console.WriteLine("Name = "+ name); Console.WriteLine("Age =" + age); } } } </pre>	

#Program.cs

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

namespace practical1
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Person p1 = new Person(); //initialize with default constructor
            Person p2=new Person("bbb",25); //initialized with parm constructor
            Person p3=new Person(); // instance method
            Person p4=new Person(); //parameterized method


            p4.Name = "ddd";
            p4.Age = 35;

            p3.getdata();

            p1.showdata();
            p2.showdata();
            p3.showdata();
            p4.showdata();

            Console.Read();
        }
    }
}
```

Output:

 C:\Users\HP\Desktop\AWT\practical1\prac1\prac1\bin\Debug\prac1.exe

```
Enter the name:
Atul
Enter the age:
22
Name: raju
Age: 21
Name: yash
Age: 20
Name: Atul
Age: 22
Name: sidhu
Age: 19
```

Practical No.2	Date : 28/04/2022
Aim:	To understand the inheritance in C-Sharp. Implementation of Multilevel inheritance.
<p>Write program that will create class Student which is inherited from person class. Which has following data member</p> <ol style="list-style-type: none"> 1. rollnumber 2. percentage <p>Implements instance method and constructor, properties of that class</p> <p>Instance methods are</p> <ol style="list-style-type: none"> 1. void getData() 2. void showData() 3. inherit the base class constructor initialization 4. inherit the base instance method 	
Source Code : #person.cs	
<pre> using System; using System.Collections.Generic; using System.Linq; using System.Text; using System.Threading.Tasks; namespace practical1 { internal class Person { //data members private string name;private int age; //Properties(getter and setter method) public string Name { get { return name; } set { name = value; } }public int Age { get { return age; } set { age = value; } } // non-parameterized constructorpublic Person() { name = "aaa"; age = 23; } //parameterized constructor public Person(String nam,int age) { this.name = nam; this.age = age; } //instance method1 public void getdata() { Console.WriteLine("Enter the Name:"); name =Console.ReadLine(); Console.WriteLine("Enter Age:"); age = Convert.ToInt16(Console.ReadLine()); } public void showdata() { Console.WriteLine("Name = "+ name); Console.WriteLine("Age =" + age); } } } </pre>	

#Program.cs

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

namespace practical1
{
    internal class Program
    {
        static void Main(string[] args)
        {
            student s = new student();//initializes through default constructor
            s.showdata();
            Console.WriteLine();

            student s1 = new student(2,89.20,"Ram",20);//initialize through
parameterized constructor
            s1.showdata();
            Console.WriteLine();

            student s2 = new student();//initialize through properties
            s2.Name = "Radhika";
            s2.Age = 23;
            s2.Rollno = 3;
            s2.Percentage = 75.25;

            s2.showdata();

            Console.Read();
        }
    }
}
```

#student.cs

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

namespace practical1
{
    internal class student:Person
    {
        //data memebers private int
        rollno;
        private double percentage;

        // properties
        public int Rollno { get { return rollno; } set { rollno = value; } } public
double Percentage { get { return percentage; } set { percentage
= value; } }

        //default constructor public
        student():base()
        {
            rollno = 1;
            percentage = 99.99;
        }

        // parameterized constructor
        public student(int rn,double per,string name,int age):base(name,age)
        {
            this.rollno = rn;
            this.percentage = per;
        }
    }
}
```

```


}

//instance method1 public
void getdata()
{
    base.getdata();
    Console.WriteLine("Enter your rollno:");
    rollno = Convert.ToInt16(Console.ReadLine());
    Console.WriteLine("Enter your percentage:");
    percentage = Convert.ToDouble(Console.ReadLine());
}

//instance method2 public void
showdata()
{
    base.showdata();
    Console.WriteLine("Roll No. is:"+rollno);
    Console.WriteLine("percentage is:"+percentage);
}
}
}

```

Output:

 C:\Users\HP\Desktop\AWT\Practical 2\Practical2\bin\Debug\Practical2.exe

```

Enter name :
Atul
Enter age :
22
Enter Roll Number=
1055
Enter Percentage=
80
name :Atul
age :22
Roll No= 1055
Percentage=80
name :Saurabh
age :20
Roll No= 2
Percentage=78.67
name :Shivam
age :21
Roll No= 3
Percentage=80.78

```


Practical No.3	Date : 03/05/2022
Aim:	To understand file handling in C-Sharp
<p>Write program that will create class Student. Which has following data member</p> <ol style="list-style-type: none"> 1. rollno 2. name 3. bdate 4. percentage <p>Implements instance method and constructor, properties of that class Instance methods are</p> <ol style="list-style-type: none"> 1. void getData() 2. void saveData() <p>saveData function(method) will generate student.csv file. Each object record will save in that file</p>	
Source Code: #person.cs	
<pre> using System; using System.Collections.Generic; using System.Linq; using System.Text; using System.Threading.Tasks; using System.IO; namespace practical3 { internal class Person { //data members private string name; private int age; //Properties(getter and setter method) public string Name { get { return name; } set { name = value; } } public int Age { get { return age; } set { age = value; } } // non-parameterized constructor public Person() { name = "aaa"; age = 23; } //parameterized constructor public Person(String nam,int age) { this.name = nam; this.age = age; } //instance method1 public void getdata() { Console.WriteLine("Enter the Name:"); name =Console.ReadLine(); Console.WriteLine("Enter Age:"); age = Convert.ToInt16(Console.ReadLine()); } public void showdata() { Console.WriteLine("Name = "+ name); Console.WriteLine("Age =" + age); } } } </pre>	

```

# Student.cs
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.IO;

namespace practical3
{
    internal class Student : Person
    {
        private int rollno;
        private double percentage;

        public Student() : base()
        {
            rollno = 1;
            percentage = 99.99;
        }
        public Student(int rn, double per, String nam, int ag) : base(nam,
ag)
        {
            this.rollno = rn;
            this.percentage = per;
        }
        public int Rollno { get { return rollno; } set { rollno = value; } }
    }
    public double Percentage { get { return percentage; } set {
percentage = value; } }

    public void getData()
    {
        base.getdata();
        Console.WriteLine("Enter the rollno");
        rollno = Convert.ToInt16(Console.ReadLine());
        Console.WriteLine("Enter the percentage");
        percentage = Convert.ToDouble(Console.ReadLine());
    }
    public void showData()
    {
        base.showdata();
        Console.WriteLine("Rollno=" + rollno);
        Console.WriteLine("Percentage=" + percentage);
    }
    public void saveData()
    {
        string currentdirectory = Directory.GetCurrentDirectory();
        FileStream fs = new FileStream(currentdirectory + "data.csv",
FileMode.Append);
        string record = rollno + "," + Name + "," + Age + "," +
percentage;
        StreamWriter sw = new StreamWriter(fs);
        sw.WriteLine(record);
        sw.Close();
        fs.Close();
        Console.WriteLine("Record store successfully");
    }
}
}

```

#program.cs


```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.IO;

namespace practical3
{
    internal class Program
    {
        static Student s = new Student();
        static void Main(string[] args)
        {
            String ans = "Y";
            do
            {
                Console.Clear();
                int choice;
                Console.WriteLine("1. Add Student");
                Console.WriteLine("2. Read File");
                Console.WriteLine("3. Exit");
                Console.WriteLine("Enter your choice(1..3)");
                choice = Convert.ToInt16(Console.ReadLine());
                switch (choice)
                {
                    case 1:
                        addStudent();
                        break;
                    case 2:
                        readFile();
                        break;
                    case 3:
                        break;
                    default:
                        Console.WriteLine("Wrong choice ");
                        break;
                }
                Console.Write("Do you wish to continue(y/n)");
                ans = Console.ReadLine();
            } while (ans.Equals("Y") || ans.Equals("y"));
        }
        static void addStudent()
        {
            s.getData();
            s.saveData();
        }
        static void readFile()
        {
            string currentdir = Directory.GetCurrentDirectory();
            FileStream fs = new FileStream(currentdir + "data.csv",
            FileMode.Open);
            StreamReader sr = new StreamReader(fs);
            sr.BaseStream.Seek(0, SeekOrigin.Begin);
            string record = sr.ReadLine();
            while (record != null)
            {
                Console.WriteLine(record);
                record = sr.ReadLine();
            }


            sr.Close();
        }
    }
}
```

```
        fs.Close();  
    }  
}  
}
```

Output:

 C:\Users\HP\Desktop\AWT\Practical 3\Practical 3\bin\Debug\Practical 3.exe

```
1. Add Student  
2. Read File  
3. Exit  
Enter your choice(1..3)  
1  
Enter the name  
Atul  
Enter the Age  
21  
Enter the Roll number  
1044  
Enter the Percentage  
85  
currentdirectory  
Record store successfully  
Do you wish to continue(y/n)
```

 C:\Users\HP\Desktop\AWT\Practical 3\Practical 3\bin\Debug\Practical 3.exe

```
1. Add Student  
2. Read File  
3. Exit  
Enter your choice(1..3)  
2  
1,Saurabh,22,99.4  
1,Shiv ,21,99.4  
1,Viraj,6,99.4  
1,Saurabh gawali,22,99.4  
1,Atul,21,99.4  
Do you wish to continue(y/n)_
```



*Untitled - Notepad

File Edit View

```
1,Saurabh,22,99.4  
2,Shiv,21,99.4  
3,Viraj,8,99.4  
3,Atul,21,99.4|
```

Practical No.4	Date:03/05/2022
Aim	Create GUI using Windows form for accepting the input from the user
<p>Write program that will create class Student. Which has following data member</p> <ol style="list-style-type: none"> 1. rollno 2. name 3. bdate 4. percentage <p>Implements instance method and constructor, properties of that class Instance methods are</p> <ol style="list-style-type: none"> 1. void getData() 2. void saveData() <p>saveData function(method) will generate student.csv file. Each object record will save in that file Refer following word file as template for GUI</p>	
Source Code: #person.cs	
<pre> using System; using System.Collections.Generic; using System.Linq; using System.Text; using System.Threading.Tasks; using System.IO; namespace practical4 { internal class Person { //data members private string name; private int age; //Properties(getter and setter method) public string Name { get { return name; } set { name = value; } } public int Age { get { return age; } set { age = value; } } // non-parameterized constructor public Person() { name = "aaa"; age = 23; } //parameterized constructor public Person(String nam,int age) { this.name = nam; this.age = age; } //instance method1 public void getdata() { Console.WriteLine("Enter the Name:"); name =Console.ReadLine(); Console.WriteLine("Enter Age:"); age = Convert.ToInt16(Console.ReadLine()); } } } </pre>	

```

    }
    public void showdata()
    {
        Console.WriteLine("Name = "+ name);
        Console.WriteLine("Age =" + age);
    }
}

```

#Student.cs

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.IO;

namespace practical4
{
    internal class Student : Person
    {
        private int rollno;
        private double percentage;

        public Student() : base()
        {
            rollno = 1;
            percentage = 99.99;
        }
        public Student(int rn, double per, String nam, int ag) : base(nam,
ag)
        {
            this.rollno = rn;
            this.percentage = per;
        }
        public int Rollno { get { return rollno; } set { rollno = value; } }
    }

    public double Percentage { get { return percentage; } set {
percentage = value; } }

    public void getData()
    {
        base.getdata();
        Console.WriteLine("Enter the rollno");
        rollno = Convert.ToInt16(Console.ReadLine());
        Console.WriteLine("Enter the percentage");
        percentage = Convert.ToDouble(Console.ReadLine());
    }
    public void showData()
    {
        base.showdata();
        Console.WriteLine("Rollno=" + rollno);
        Console.WriteLine("Percentage=" + percentage);
    }
    public void saveData()
    {
        string currentdirectory = Directory.GetCurrentDirectory();
        FileStream fs = new FileStream(currentdirectory + "data.csv",
        FileMode.Append);
        string record = rollno + "," + Name + "," + Age + "," +
percentage;
        StreamWriter sw = new StreamWriter(fs);
        sw.WriteLine(record);
    }
}

```

```
        sw.Close();  
        fs.Close();  
        //Console.WriteLine("Record store successfully");  
    }  
}
```

Output:

STUDENT DATA ENTRY FORM

Name	<input type="text" value="Atul"/>	<div></div>
Roll No.	<input type="text" value="1044"/>	
Age	<input type="text" value="21"/>	
Percentage	<input type="text" value="80"/>	

Practical No.5	Date:10/05/2022
Aim:	Understand the use of common controls in Windows Form

- Create GUI using Windows form for simple calculator
 - Create GUI using Windows form for convert temperature from Celsius to Fahrenheit or visa-versa [use slider control]
 - Create GUI using Windows form to calculate simple interest & compound interest
 - Create 3 Tab where you can place above three practical in one Windows form
- Refer following GUI for your practical and use appropriate variable and events

Refer following word file as template for your practical use the GUI from it.

The image shows three separate Windows Forms. The 'Simple Calculator' has input fields for 'Number 1', 'Number 2', a dropdown for 'Operations', and a 'Result' field. The 'Temperature Converter' has two sliders, one for Celsius (37) and one for Fahrenheit (98.6). The 'Interest Calculator' has input fields for 'Principal Amount', 'No. of Years', 'Rate of Interest', 'Simple Interest', and 'Compound Interest'.

Source Code:# (A)Simple Calculator

The screenshot shows a tabbed interface with three tabs: 'Simple Calculator', 'Temperture convertor', and 'Interestcalculator'. The 'Simple Calculator' tab is active, showing the same GUI as described in the previous block.

#Form.cs

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace practical_5
{
    public partial class Form1 : Form
    {

```



```

private void comboBox1_SelectedIndexChanged(object sender, EventArgs e)
{
    int index = comboBox1.SelectedIndex;
    int num1, num2, result;
    num1 = Convert.ToInt16(txtnum1.Text);
    num2 = Convert.ToInt16(txtnum2.Text);

    switch(index)
    {
        case 0:
            //add
            result = num1 + num2;
            txtresult.Text = result.ToString();
            break;

        case 1:
            //sub
            result = num1 - num2;
            txtresult.Text = result.ToString();
            break;

        case 2:
            //mul
            result = num1 * num2;
            txtresult.Text = result.ToString();
            break;

        case 3:
            //div
            result = num1 / num2;
            txtresult.Text = result.ToString();
            break;
    }
}
}
}
}

```

Output:

Simple Calculator

Num1	<input type="text" value="30"/>
Num2	<input type="text" value="20"/>
Operations	<input type="text" value="Addition"/>
Result	<input type="text" value="50"/>

Addition

Simple Calculator

Num1	<input type="text" value="30"/>
Num2	<input type="text" value="20"/>
Operations	<input type="text" value="Subtraction"/>
Result	<input type="text" value="10"/>

Subtraction

Simple Calculator

Num1

30

Num2

20

Operations

Multiplication

Result

600

Simple Calculator

Num1

30

Num2

20

Operations

Division

Result

1

Multiplication

Division

#Form.cs [Design]

(B) Temperature Convertor

Temperature convertor

Interestcalculator

celsius

Fahrenheit

```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace practical_5
{
    public partial class Form1 : Form
    {
        double celcious, fahrenheit, celciousToFahrenheit, fahrenheitToCelcious;
        private void tbCel_Scroll(object sender, EventArgs e)
        {
            celcious = tbCel.Value;
            txtCel.Text = celcious.ToString();

            celciousToFahrenheit = (celcious * 9) / 5 + 32;
            txtFah.Text = celciousToFahrenheit.ToString();
        }
        private void tbFah_Scroll(object sender, EventArgs e)
        {
            fahrenheit = tbFah.Value;
            txtFah.Text = fahrenheit.ToString();

            fahrenheitToCelcious = (fahrenheit - 32) / 5 + 9;
            txtCel.Text = fahrenheitToCelcious.ToString();
        }
    }
}

```

#Output:

The output shows two screenshots of a temperature converter application. The left screenshot displays the 'Celsius To Fahrenheit' conversion, with an input of 4 Celsius resulting in 39.2 Fahrenheit. The right screenshot displays the 'Fahrenheit To Celsius' conversion, with an input of 5 Fahrenheit resulting in 3.6 Celsius. Both screenshots show a tabbed interface with 'Tempreture convertor' and 'Interestcalculator' tabs.

#Form.cs [Design] Simple and Compound Interest

The screenshot shows the 'Interest Calculator' form. It has three horizontal sliders for 'Principal Amount', 'No Of Year', and 'Rate Of Interest'. Below the sliders are two text boxes for 'Simple Interest' and 'Compound Interest'.

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
namespace practical_5
{
    public partial class Form1: Form
    {
        int principalAmount, noofyear, interestRate, simpleinterest,
        compoundinterest;

        private void hScrollBar1_Scroll(object sender, ScrollEventArgs e)
        {
            principalAmount = hScrollBar1.Value;
            txtprincipal.Text = principalAmount.ToString();

            simpleinterest = ((principalAmount * noofyear * interestRate) /
            100);
            txtSI.Text = simpleinterest.ToString();

            compoundinterest = (int)(principalAmount * Math.Pow(1 +
            interestRate / 100, noofyear));
            txtCI.Text = compoundinterest.ToString();
        }
    }
}
```

```

private void hScrollBar2_Scroll(object sender, ScrollEventArgs e)
{
    noofyear = hScrollBar2.Value;
    txtyear.Text = noofyear.ToString();

    simpleinterest = ((principalAmount * noofyear * interestRate) /
100);
    txtSI.Text = simpleinterest.ToString();

    compoundinterest = (int)(principalAmount * Math.Pow(1 +
interestRate / 100, noofyear));
    txtCI.Text = compoundinterest.ToString();
}

private void hScrollBar3_Scroll(object sender, ScrollEventArgs e)
{
    interestRate = hScrollBar3.Value;
    txtRate.Text = hScrollBar3.Value.ToString();

    simpleinterest = ((principalAmount * noofyear * interestRate) /
100);
    txtSI.Text = simpleinterest.ToString();

    compoundinterest = (int)(principalAmount * Math.Pow(1 +
interestRate / 100, noofyear));
    txtCI.Text = compoundinterest.ToString();
}
}
}

```

#Output:

Interest Calculator

10430

6

5

Simple Interest

Compound Interest

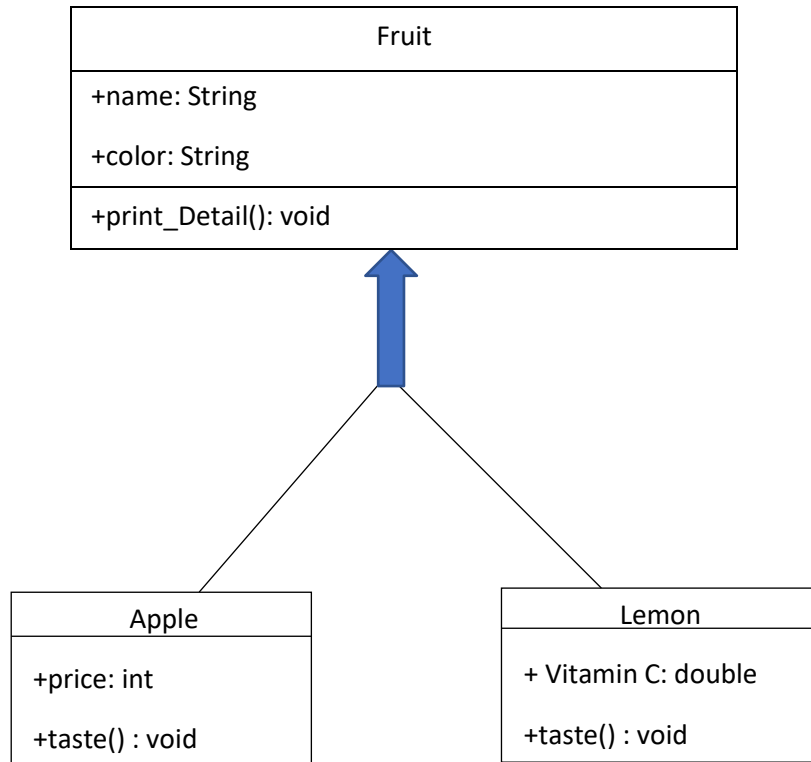
Practical No:6 A

Date:12/05/2022

Aim:

Design Applications using Inheritance and Abstract Classes

6(a): Write a program to demonstrate single inheritance for the following design:



Source Code:

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

namespace practicalNo6A
{
    class Program
    {
        class fruit
        {
            public string name ;
            public string color;

            public void printDetail()
            {
                Console.WriteLine("This is fruit Properties ... ");
                Console.WriteLine("name:" + name);
                Console.WriteLine("color:" + color);
            }
        }
    }
}
```

```

    }
}
class Apple:fruit
{
    public int price;


    public void taste()
    {
        Console.WriteLine("Apple price is:" + price);
        Console.WriteLine("Apple taste is sweet");
    }
}
class Lemon :fruit
{
    public float vitaminC;

    public void taste()
    {
        base.printDetail();
        Console.WriteLine("VitaminC level:"+vitaminC);
        Console.WriteLine("Lemon taste is sour");
    }
}
static void Main(string[] args)
{
    Apple a = new Apple();
    a.name = "redApple";
    a.color = "Red";
    a.price = 60;
    a.printDetail();
    a.taste();

    Lemon l = new Lemon();
    l.name = "yellow Lemon";
    l.color = "Yellow";
    l.vitaminC = 20 ;
    l.taste();
    Console.ReadLine();
}
}
}

```

Output:

 C:\Users\Radhika\Desktop\AWT practical\practicalNo6A\practicalNo6A\bin\Debug\practicalNo6A.exe

```

This is fruit Properties....
name:redApple
color:Red
Apple price is:60
Apple taste is sweet
This is fruit Properties....
name:yellow Lemon
color:Yelllow
VitaminC level:20
Lemon taste is sour

```

Practical No:6 B	Date:12/05/2022
Aim:	Design Applications using Inheritance and Abstract Classes
<p>Write a program to create abstract class account which has abstract method deposit and withdraw. Create concrete class Saving Account and Current Account which is inherited from abstract class. Show the polymorphism, method overriding into it.</p> <p>a. Saving Account initial deposit is 1000 INR b. Current Account initial deposit is 3000 INR</p> <p>When account is open the initial deposit will automatically initialize. Create menu in Program.cs where user will create account, deposit and withdraw money from the options.</p> <p>Withdraw amount will not cross minimum deposit amount. If user try to do withdraw amount which is more than minimum deposit the appropriate message will display. There is one more method you can create that will display the balance amount of account holder. (Name of method is display_Balance());</p>	
<p>Source Code:</p> <pre> #Current_Account.cs using System; using System.Collections.Generic; using System.Linq; using System.Text; using System.Threading.Tasks; namespace Practical_6B { class Current_Account : Account { private decimal balance, minBalance; public Current_Account() { balance = 3000; minBalance = 3000; } public override void Deposit(decimal amount) { balance = balance + amount; DisplayBalance(); } public override void Withdraw(decimal amount) { if (balance > amount && (balance-amount == minBalance balance-amount > minBalance)) { balance = balance - amount; DisplayBalance(); } else if (minBalance == amount) { DisplayBalance(); Console.WriteLine("Oops!! Withdraw Failed!!!"); } } } } </pre>	

```

        Console.WriteLine("Sorry! Your Current balance is equal to the
amount required to keep account activate, so can't withdraw amount.");
    }
    else if(minBalance > amount)
    {
        DisplayBalance();
        Console.WriteLine("Oops!! Withdraw Failed!!!");
        Console.WriteLine("Sorry! Your Current balance is equal to the
amount required to keep account activate, so can't withdraw amount.");
    }
    else
    {
        Console.WriteLine("Insufficient Balance");
        DisplayBalance();
    }
}

public override void DisplayBalance()
{
    Console.WriteLine("Your Balance is :" + balance);
}
}
}

```

#Savings_Account

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Practical_6B
{
    class Savings_Account : Account
    {
        private decimal balance,minBalance;

        public Savings_Account()
        {
            balance = 1000;
            minBalance = 1000;
        }

        public override void Deposit(decimal amount)
        {
            balance = balance + amount;
            DisplayBalance();
        }

        public override void Withdraw(decimal amount)
        {
            if(balance > amount && minBalance < amount)
            {
                balance = balance - amount;
                DisplayBalance();
            }
            else if(minBalance == amount)
            {

```



```

        DisplayBalance();
        Console.WriteLine("Oops!! Withdraw Failed!!!");
        Console.WriteLine("Sorry! Your Current balance is equal to the
amount required to keep account activate, so can't withdraw amount.");
    }
    else if(minBalance > amount)
    {
        DisplayBalance();
        Console.WriteLine("Oops!! Withdraw Failed!!!");
        Console.WriteLine("Sorry! Your Current balance is equal to the
amount required to keep account activate, so can't withdraw amount.");
    }
    else
    {
        Console.WriteLine("Insufficient Balance");
        DisplayBalance();
    }
}

public override void DisplayBalance()
{
    Console.WriteLine("Your Current Balance is :" +balance);
}
}
}

```

#Program.cs

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Practical_6B
{
    class Program
    {
        static Account s = new Savings_Account();
        static Account c = new Current_Account();
        static void Main(string[] args)
        {
            String ans = "Y";
            do
            {
                Console.Clear();
                int choice, ch, withdrawAmount, depositAmount;
                Console.WriteLine("Select your Account Type..");
                Console.WriteLine("1.Saving Account");
                Console.WriteLine("2.Current Account");
                Console.WriteLine("3.Exit");
                Console.WriteLine("Enter your choice (1,2,3) :");
                choice = Convert.ToInt32(Console.ReadLine());

                switch (choice)
                {
                    case 1:
                        Console.WriteLine("What do you want to do?");
                        Console.WriteLine("4.Withdraw");
                        Console.WriteLine("5.Deposit");
                        Console.WriteLine("6.Exit");
                        s.DisplayBalance();

```

```

Console.WriteLine("Enter your choice (4,5,6) :");
ch = Convert.ToInt32(Console.ReadLine());

switch (ch)
{
    case 4:
        Console.WriteLine("Enter amount you want to
withdraw: ");
        withdrawAmount =
Convert.ToInt32(Console.ReadLine());
        Console.WriteLine("Amount you want to withdraw
is : " + withdrawAmount);

        s.Withdraw(withdrawAmount);
        break;
    case 5:
        Console.WriteLine("Enter amount you want to
deposit: ");
        depositAmount =
Convert.ToInt32(Console.ReadLine());
        Console.WriteLine("Amount you want to deposit
is : " + depositAmount);

        s.Deposit(depositAmount);
        break;
    case 6:
        break;
    default:
        Console.WriteLine("Wrong Choice...");
        break;
}

break;

case 2:
    Console.WriteLine("What do you want to do?");
    Console.WriteLine("7.Withdraw");
    Console.WriteLine("8.Deposit");
    Console.WriteLine("9.Exit");
    c.DisplayBalance();
    Console.WriteLine("Enter your choice (7,8,9) :");
    ch = Convert.ToInt32(Console.ReadLine());
    switch (ch)
    {
        case 7:
            Console.WriteLine("Enter amount you want to
withdraw: ");
            withdrawAmount =
Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Amount you want to withdraw
is : " + withdrawAmount);

            c.Withdraw(withdrawAmount);
            break;
        case 8:
            Console.WriteLine("Enter amount you want to
deposit: ");
            depositAmount =
Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Amount you want to deposit
is : " + depositAmount);

            c.Deposit(depositAmount);
            break;
        case 9:
            break;
    }
}

```

```

        default:
            Console.WriteLine("Wrong Choice...");
            break;
    }
    break;
case 3:
    break;
default:
    Console.WriteLine("Wrong Choice...");
    break;
}
Console.Write("Do you want to continue?(y/n)");
ans = Console.ReadLine();
} while (ans.Equals("Y") || ans.Equals("y"));
}
}
}

```

Output:

C:\Users\Radhika\Downloads\Practical 6B\bin\Debug\Practical 6B.exe

```

Select your Account Type..
1.Saving Account
2.Current Account
3.Exit
Enter your choice (1,2,3) :
1
What do you want to do?
4.Withdraw
5.Deposit
6.Exit
Your Current Balance is :1000
Enter your choice (4,5,6) :
5
Enter amount you want to deposit:
2000
Amount you want to deposit is : 2000
Your Current Balance is :3000
Do you want to continue?(y/n)

```

C:\Users\Radhika\Downloads\Practical 6B\bin\Debug\Practical 6B.exe

```

Select your Account Type..
1.Saving Account
2.Current Account
3.Exit
Enter your choice (1,2,3) :
2
What do you want to do?
7.Withdraw
8.Deposit
9.Exit
Your Balance is :9000
Enter your choice (7,8,9) :
7
Enter amount you want to withdraw:
1000
Amount you want to withdraw is : 1000
Your Balance is :8000
Do you want to continue?(y/n)

```

Practical No: 7 A	Date:14/05/2022
Aim:	To Design a Web Application for an Organization with Registration forms and advanced controls
<p>a. Create login form by using ASP.NET web form. Show appropriate message for valid and invalid user.</p>	
<p>Source Code:</p> <p>#Default.aspx</p> <pre> <%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="prac7._Default" %> <asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server"> <h1>Practical - 7A: Design a login form</h1> <table style="width: 100%;"> <tr> <td class="modal-sm" colspan="3" style="height: 38px"> <asp:Literal ID="ltrMessage" runat="server"></asp:Literal> </td> </tr> <tr> <td class="modal-sm" style="width: 140px; height: 38px"> <asp:Label ID="Label1" runat="server" Text="Username"></asp:Label> </td> <td style="width: 265px; height: 38px"> <asp:TextBox ID="txtUsername" runat="server"></asp:TextBox> </td> <td style="height: 38px"></td> </tr> <tr> <td class="modal-sm" style="width: 140px; height: 44px"> <asp:Label ID="Label2" runat="server" Text="Password"></asp:Label> </td> <td style="width: 265px; height: 44px"> <asp:TextBox ID="txtPassword" runat="server" TextMode="Password"></asp:TextBox> </td> <td style="height: 44px"></td> </tr> <tr> <td class="modal-sm" colspan="3" style="height: 42px"> <asp:Button ID="btnLogin" runat="server" OnClick="btnLogin_Click" Text="Login" /> </td> </tr> </table> </asp:Content> #Default.aspx.cs using System; using System.Collections.Generic; using System.Linq; using System.Web; using System.Web.UI; using System.Web.UI.WebControls; namespace prac7 { public partial class _Default : Page </pre>	

```

{
    protected void Page_Load(object sender, EventArgs e)
    {

    }

    protected void btnLogin_Click(object sender, EventArgs e)
    {
        if (txtUsername.Text.Equals("Admin") && txtPassword.Text.Equals("Admin"))
        {
            //ltrMessage.Text = "Valid User";
            Response.Redirect("success.aspx");
        }
        else
        {
            //ltrMessage.Text = "Invalid User";
            Response.Redirect("unsuccess.aspx");
        }
    }
}

```

#success.aspx

```

<%@ Page Title="" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="success.aspx.cs" Inherits="prac7.WebForm1" %>
<asp:Content ID="Content1" ContentPlaceHolderID="MainContent" runat="server">
    <h1>It Is A Valid User</h1>
    <h1>
        <asp:Image ID="Image1" runat="server" Height="104px"
ImageUrl="~/image/success.png" Width="170px" />
    </h1>
    <p>&nbsp;</p>
    <p>
        <asp:HyperLink ID="HyperLink1" runat="server"
NavigateUrl="~/Default.aspx">Back To Login Page</asp:HyperLink>
    </p>
</asp:Content>

```

#unsuccessful.aspx

```

<%@ Page Title="" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="unsuccess.aspx.cs" Inherits="prac7.WebForm2" %>
<asp:Content ID="Content1" ContentPlaceHolderID="MainContent" runat="server">
    <h1>Invalid user</h1>
    <h1>
        <asp:Image ID="Image1" runat="server" Height="147px"
ImageUrl="~/image/unsuccess.jpg" Width="163px" />
    </h1>
    <p>&nbsp;</p>
    <p>
        <asp:HyperLink ID="HyperLink1" runat="server"
NavigateUrl="~/Default.aspx">Back To Login Page</asp:HyperLink>
    </p>
</asp:Content>

```

Output :

Practical - 7A: Design a login form

Username

Password

Login

Invalid user



[Back To Login Page](#)

Practical No: 7 B	Date:14/05/2022
Aim:	To Design a Web Application for an Organization with Registration forms and advanced controls
<p>b. Create registration form using ASP.NET web form. Which has following input</p> <ul style="list-style-type: none"> • Username • Password • Confirm password • Email • Date of Birth • Image upload <p>Write appropriate validation messages [such as invalid email, required field , invalid password, image format and size etc] Submit form will place the data in same page by using crosspost and postback method And link of this page to your login form as sign up activity</p>	
<p>Source Code:</p> <p>Default.aspx</p> <pre> <%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="prac7b._Default" %> <asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server"> <div class="jumbotron"> <h1>Practical 7B - Registration Form</h1> <table style="width:100%;"> <tr> <td style="width: 318px; height: 45px"> <asp:Label ID="Label1" runat="server" Text="Username"></asp:Label> <td style="width: 473px; height: 45px"> <asp:TextBox ID="txtUsername" runat="server"></asp:TextBox> </td> <td style="height: 45px"></td> </tr> <tr> <td style="width: 318px; height: 51px"> <asp:Label ID="Label2" runat="server" Text="Password"></asp:Label> <td style="width: 473px; height: 51px"> <asp:TextBox ID="txtPassword" runat="server" TextMode="Password"></asp:TextBox> <td style="height: 51px"></td> </tr> <tr> <td style="width: 318px; height: 48px"> <asp:Label ID="Label3" runat="server" Text="Confirm Password"></asp:Label> <td style="width: 473px; height: 48px"> </pre>	

```

        <asp:TextBox ID="txtCfPassword" runat="server"
TextMode="Password"></asp:TextBox>
    </td>
    <td style="height: 48px"></td>
</tr>
<tr>
    <td style="width: 318px; height: 56px">
        <asp:Label ID="Label4" runat="server"
Text="Email"></asp:Label>
    </td>
    <td style="width: 473px; height: 56px">
        <asp:TextBox ID="txtEmail" runat="server"
TextMode="Email"></asp:TextBox>
    </td>
    <td style="height: 56px"></td>
</tr>
<tr>
    <td style="width: 318px; height: 52px">
        <asp:Label ID="Label5" runat="server" Text="Date of
Birth"></asp:Label>
    </td>
    <td style="width: 473px; height: 52px">
        <asp:TextBox ID="txtDoB" runat="server"
TextMode="Date"></asp:TextBox>
    </td>
    <td style="height: 52px"></td>
</tr>
<tr>
    <td style="width: 318px; height: 60px">
        <asp:Label ID="Label6" runat="server"
Text="Image"></asp:Label>
    </td>
    <td style="width: 473px; height: 60px">
        <asp:TextBox ID="txtImage" runat="server"></asp:TextBox>
    </td>
    <td style="height: 60px"></td>
</tr>
<tr>
    <td style="width: 318px; height: 57px">
        <asp:Button ID="Button1" runat="server" Text="Registration"
OnClick="Button1_Click" />
    </td>
    <td style="height: 57px; width: 473px">&nbsp;</td>
    <td style="height: 57px">&nbsp;</td>
</tr>
</table>
</div>

</asp:Content>

```

Default.aspx.cs

```

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

namespace prac7b

```



```
{
    public partial class _Default : Page
    {
        protected void Page_Load(object sender, EventArgs e)//what are the 2
parameters and what are the application
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            Response.Redirect("output.aspx?txtUsername="+txtUsername.Text+"&txtPassword="+txtPassw
ord.Text+"&txtEmail="+txtEmail.Text+"&txtDoB="+txtDoB.Text+"&txtImage="+txtImage.Text)
;
        }
    }
}
```

Output.aspx

```
<%@ Page Title="" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true"
CodeBehind="output.aspx.cs" Inherits="prac7b.WebForm1" %>
<asp:Content ID="Content1" ContentPlaceHolderID="MainContent" runat="server">
    <table style="width: 100%; height: 245px;">
        <tr>
            <td colspan="3">OUTPUT</td>
        </tr>
        <tr>
            <td style="width: 385px">Your Name</td>
            <td style="width: 426px">
                <asp:Label ID="lblusername" runat="server"></asp:Label>
            </td>
            <td>&nbsp;</td>
        </tr>
        <tr>
            <td style="width: 385px">Your Password</td>
            <td style="width: 426px">
                <asp:Label ID="lblpassword" runat="server"></asp:Label>
            </td>
            <td>&nbsp;</td>
        </tr>
        <tr>
            <td style="width: 385px">Your Email</td>
            <td style="width: 426px">
                <asp:Label ID="lblemail" runat="server"></asp:Label>
            </td>
            <td>&nbsp;</td>
        </tr>
        <tr>
            <td style="width: 385px">Your Birth Date</td>
            <td style="width: 426px">
                <asp:Label ID="lbldob" runat="server"></asp:Label>
            </td>
            <td>&nbsp;</td>
        </tr>
        <tr>
            <td style="width: 385px">Image Path</td>
            <td style="width: 426px">
                <asp:Label ID="lblimg" runat="server"></asp:Label>
            </td>
            <td>&nbsp;</td>
        </tr>
    </table>
```

</asp:Content>

Output

Application name Home About Contact

Practical 7B - Registration Form

Username	<input type="text" value="atul"/>
Password	<input type="password" value="..."/>
Confirm Password	<input type="password" value="..."/>
Email	<input type="text" value="sham@gmail.com"/>
Date of Birth	<input type="text" value="13-03-2005"/> <input type="button" value="📅"/>
Image	<input type="text" value="scc"/>
<input type="button" value="Registration"/>	

Application name Home About Contact

OUTPUT

Your Name	atul
Your Password	sam
Your Email	sham@gmail.com
Your Birth Date	2005-03-13
Image Path	scc

Practical No: 8	Date:02/06/2022
Aim:	Create website using master page concept.
<p>Create web application layout by using master page which has following pages</p> <ul style="list-style-type: none"> • Home • About us • Contact us • Login <p>Create header and footer in master page and call it in each page. Write appropriate dummy content in each page. [Refer following screen shot for Master page]</p>	
<p>Source Code:</p> <p>Default.aspx</p> <pre> <%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="Practical_8._Default" %> <asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server"> <div class="jumbotron"> <h1>ASP.NET Practical-8 </h1> <p class="lead">ASP.NET Practicals </p> </div> <div class="row"> <div class="col-md-4"> <h1>Core-ASP.NET</h1> Class & Object
 Inheritance -Abstract Class
 Use of Window Form
 Use of file handling
 Use of C-Sharp controls
 Polymorphism & Abstract methods
 Registration Form-Asp net controls
 </div> <div class="col-md-4"> <div> <h1>ADO.NET</h1> Searching
 Inserting/Updating/Deleting
 Use of store procedure
 </div> <div> <h1>Web Services</h1> Produce & consume web service
 Session Management
 </div> </div> <div class="col-md-4"> <div> <h1>MVC</h1> Create View
 Update View
 Detail View
 </div> </div> </div> </pre>	

```

        <a href="#">Delete View</a> <br />
    </div>
    <div>
        <h1>WCF Services</h1>
        <a href="#">Produce and Consume Web services</a> <br />
        <a href="#">Practical 2</a> <br />
    </div>
</div>
</div>
</asp:Content>

Site Master
<%@ Master Language="C#" AutoEventWireup="true" CodeBehind="Site.master.cs"
Inherits="Practical_8.SiteMaster" %>

<!DOCTYPE html>

<html lang="en">
<head runat="server">
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title><%: Page.Title %> - My ASP.NET Application</title>

    <asp:PlaceHolder runat="server">
        <%: Scripts.Render("~/bundles/modernizr") %>
    </asp:PlaceHolder>

    <webopt:bundlereference runat="server" path="~/Content/css" />
    <link href="~/favicon.ico" rel="shortcut icon" type="image/x-icon" />
</head>
<body>
    <form runat="server">
        <asp:ScriptManager runat="server">
            <Scripts>
                <!--To learn more about bundling scripts in ScriptManager see
https://go.microsoft.com/fwlink/?LinkID=301884 --%>
                <!--Framework Scripts--%>
                <asp:ScriptReference Name="MsAjaxBundle" />
                <asp:ScriptReference Name="jquery" />
                <asp:ScriptReference Name="bootstrap" />
                <asp:ScriptReference Name="WebForms.js" Assembly="System.Web"
Path="~/Scripts/WebForms/WebForms.js" />
                <asp:ScriptReference Name="WebUIValidation.js" Assembly="System.Web"
Path="~/Scripts/WebForms/WebUIValidation.js" />
                <asp:ScriptReference Name="MenuStandards.js" Assembly="System.Web"
Path="~/Scripts/WebForms/MenuStandards.js" />
                <asp:ScriptReference Name="GridView.js" Assembly="System.Web"
Path="~/Scripts/WebForms/GridView.js" />
                <asp:ScriptReference Name="DetailsView.js" Assembly="System.Web"
Path="~/Scripts/WebForms/DetailsView.js" />
                <asp:ScriptReference Name="TreeView.js" Assembly="System.Web"
Path="~/Scripts/WebForms/TreeView.js" />
                <asp:ScriptReference Name="WebParts.js" Assembly="System.Web"
Path="~/Scripts/WebForms/WebParts.js" />
                <asp:ScriptReference Name="Focus.js" Assembly="System.Web"
Path="~/Scripts/WebForms/Focus.js" />
                <asp:ScriptReference Name="WebFormsBundle" />
                <!--Site Scripts--%>
            </Scripts>
        </asp:ScriptManager>
    </form>
</body>
</html>

```

```

</asp:ScriptManager>

<div class="navbar navbar-fixed-top">
  <div class="container">
    <div class="navbar-header">
      <button type="button" class="navbar-toggle" data-toggle="collapse"
data-target=".navbar-collapse" title="more options">
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <a class="navbar-brand" runat="server" href="#">Master page
Practical</a>
    </div>
    <div class="navbar-collapse collapse">
      <ul class="nav navbar-nav">
        <li><a runat="server" href="#">Home</a></li>
        <li><a runat="server" href="#">About</a></li>
        <li><a runat="server" href="#">Contact</a></li>
        <li><a runat="server" href="#">Login</a></li>
      </ul>
    </div>
  </div>
</div>
<div class="container body-content">
  <asp:ContentPlaceHolder ID="MainContent" runat="server">
  </asp:ContentPlaceHolder>
  <hr />
  <footer>
    <div class="row">
      <div class="col-md-3">
        <h1>Category</h1>
        <ol>
          <li>Windows Form</li>
          <li>Core ASP</li>
          <li>ADO NET</li>
          <li>MVC</li>
          <li>Web API</li>
          <li>Web Services</li>
          <li>WCF Services</li>
        </ol>
      </div>
      <div class="col-md-3">
        <h1>Blogs</h1>
        <a href="#"></a>How to crack MCA<br />
        <a href="#"></a>How to prepare for interview<br />
        <a href="#"></a>Java interview preparation<br />
        <a href="#"></a>Full stack developer<br />
        <a href="#"></a>Data Analysis<br />
      </div>
      <div class="col-md-3">
        <h1>Calender</h1>
        <asp:Calendar ID="Calendar1" runat="server"></asp:Calendar>
      </div>
      <div class="col-md-3">
        <h1>Contact us</h1>
        <p><b>Email:</b>contact@hiray.org.in</p>
        <p><b>Phone</b>9876532100</p>
        <p><b>Address:</b>s152,Govt colony</p>
      </div>
    </div>
    <p>&copy; <%: DateTime.Now.Year %> - My ASP.NET Application</p>
  </div>

```

```
</footer>
</div>

</form>
</body>
</html>
```

#Output

[Master page Practical](#) [Home](#) [About](#) [Contact](#) [Login](#)

ASP.NET Practical-8

ASP.NET Practicals

Core-ASP.NET

[Class & Object](#)
[Inheritance -Abstract Class](#)
[Use of Window Form](#)
[Use of file handling](#)
[Use of C-Sharp controls](#)
[Polymorphism & Abstract methods](#)
[Registration Form-Asp net controls](#)

ADO.NET

[Searching](#)
[Inserting/Updating/Deleting](#)
[Use of store procedure](#)

Web Services

[Produce & consume web service](#)
[Session Management](#)

MVC

[Create View](#)
[Update View](#)
[Detail View](#)
[Delete View](#)

WCF Services

[Produce and Consume Web services](#)
[Practical 2](#)

Category

1. Windows Form
2. Core ASP
3. ADO NET
4. MVC
5. Web API
6. Web Services
7. WCF Services

Blogs

[How to crack MCA](#)
[How to prepare for interview](#)
[Java interview preparation](#)
[Full stack developer](#)
[Data Analysis](#)

Calender

< August 2022 >						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

Contact us

Email:contact@hiray.org.in
Phone[9876532100](tel:9876532100)
Address:s152,Govt colony

Practical No: 10	Date:09/06/2022
Aim:	Design a webpage to demonstrate a connection oriented architecture..
<p>Create registration form using ASP.NET web form. Which has following input</p> <ul style="list-style-type: none"> • Username • Password • Confirm password • Email • Date of Birth • Image upload <p>Write appropriate validation messages [such as invalid email, required field , invalid password, image format and size etc] Submit form will place the data in the MS-SQL server</p>	
<p>Source Code:</p> <p>Default.aspx</p> <pre> <%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="Practical10._Default" %> <asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server"> <h1> Practical 10 - Understand the use of ADO.NET control</h1> <table class="table" style="width: 100%;"> <tr> <td colspan="3"> <asp:Literal ID="Literal1" runat="server"></asp:Literal></td> </tr> <tr> <td colspan="3" align="center"><h2>Registration-Form</h2></td> </tr> <tr> <td> <asp:Label ID="Label1" runat="server" Text="Username"></asp:Label></td> <td> <asp:TextBox ID="txtUsername" runat="server"></asp:TextBox></td> <td> <asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server" ErrorMessage="Username is required" ControlToValidate="txtUsername"></asp:RequiredFieldValidator></td> </tr> <tr> <td> <asp:Label ID="Label2" runat="server" Text="Password"></asp:Label></td> <td> <asp:TextBox ID="txtPassword" runat="server" TextMode="Password"></asp:TextBox></td> <td> <asp:RequiredFieldValidator ID="RequiredFieldValidator2" runat="server" ErrorMessage="Password is required" ControlToValidate="txtPassword"></asp:RequiredFieldValidator></td> </tr> </table> </pre>	

```

        <asp:Label ID="Label3" runat="server" Text="Confirm
Password"></asp:Label></td>
        <td>
            <asp:TextBox ID="txtConfirm" runat="server"
TextMode="Password"></asp:TextBox></td>
        <td>
            <asp:CompareValidator ID="CompareValidator1" runat="server"
ErrorMessage="Password doesn't match" ControlToCompare="txtPassword"
ControlToValidate="txtConfirm"></asp:CompareValidator></td>
    </tr>
    <tr>
        <td>
            <asp:Label ID="Label4" runat="server" Text="Email"></asp:Label></td>
        <td>
            <asp:TextBox ID="txtEmail" runat="server"
TextMode="SingleLine"></asp:TextBox></td>
        <td>
            <asp:RegularExpressionValidator ID="RegularExpressionValidator1"
runat="server" ErrorMessage="Invalid Email" ControlToValidate="txtEmail"
ValidationExpression="^([\\w-\\.]+)@([\\[0-9]{1,3}\\.[0-9]{1,3}\\.[0-9]{1,3}\\.|([\\w-
]+\\.)+))([a-zA-Z]{2,4}|[0-9]{1,3})(\\?)$"></asp:RegularExpressionValidator></td>
    </tr>
    <tr>
        <td>
            <asp:Label ID="Label5" runat="server" Text="Date of
Birth"></asp:Label></td>
        <td>
            <asp:TextBox ID="txtDOB" runat="server" TextMode="Date"></asp:TextBox>
        </td>
        <td>
            <asp:RequiredFieldValidator ID="RequiredFieldValidator3"
runat="server" ErrorMessage="Birthdate is required"
ControlToValidate="txtDOB"></asp:RequiredFieldValidator></td>
    </tr>
    <tr>
        <td>
            <asp:Label ID="Label6" runat="server" Text="Image"></asp:Label></td>
        <td>
            <asp:FileUpload ID="FileUpload1" runat="server" /></td>
        <td>
            <asp:RequiredFieldValidator ID="RequiredFieldValidator4"
runat="server" ErrorMessage="Image is required" ValidateRequestMode="Enabled"
ControlToValidate="FileUpload1"></asp:RequiredFieldValidator></td>
    </tr>
    <tr>
        <td colspan="3" align="center">
            <asp:Button ID="Button1" runat="server" Text="Registration"
OnClick="Button1_Click" /></td>
    </tr>
</table>
</asp:Content>

```

Default.aspx.cs

```

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

```



```

namespace Practical10
{
    public partial class _Default : Page
    {
        //Step 1 Declaration of Connection object, Command object, Dataadapter object
        SqlConnection conn;
        SqlDataAdapter adapter;
        SqlCommand cmd;

        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void Button1_Click(object sender, EventArgs e)
        {
            //step 1 Initializing the connection object
            conn = new SqlConnection("Data
Source=(LocalDB)\\MSSQLLocalDB;AttachDbFilename=G:\\Practical10\\Practical10\\App_Data
\\Database1.mdf;Integrated Security=True");
            conn.Open();
            //step 2 Initializing the command object
            String insertquery = "insert into
usertable(username,password,email,birthdate,image)values(@uname,@pass,@email,@dob,@ima
ge)";

            cmd = new SqlCommand(insertquery, conn);
            //step 3 Initializing the DataAdapter
            adapter = new SqlDataAdapter(insertquery, conn);
            //step 4 Adding the parameters to query
            //adding the value of Username,password,email,dob,imagename
            adapter.InsertCommand = cmd;
            adapter.InsertCommand.Parameters.AddWithValue("@uname", txtUsername.Text);
            adapter.InsertCommand.Parameters.AddWithValue("@pass", txtPassword.Text);
            adapter.InsertCommand.Parameters.AddWithValue("@email", txtEmail.Text);
            adapter.InsertCommand.Parameters.AddWithValue("@dob", txtDOB.Text);
            adapter.InsertCommand.Parameters.AddWithValue("@image",
FileUpload1.FileName);
            adapter.InsertCommand.ExecuteNonQuery();
            Literal1.Text = "Record inserted successfully";
            conn.Close();
        }
    }
}

```

Output

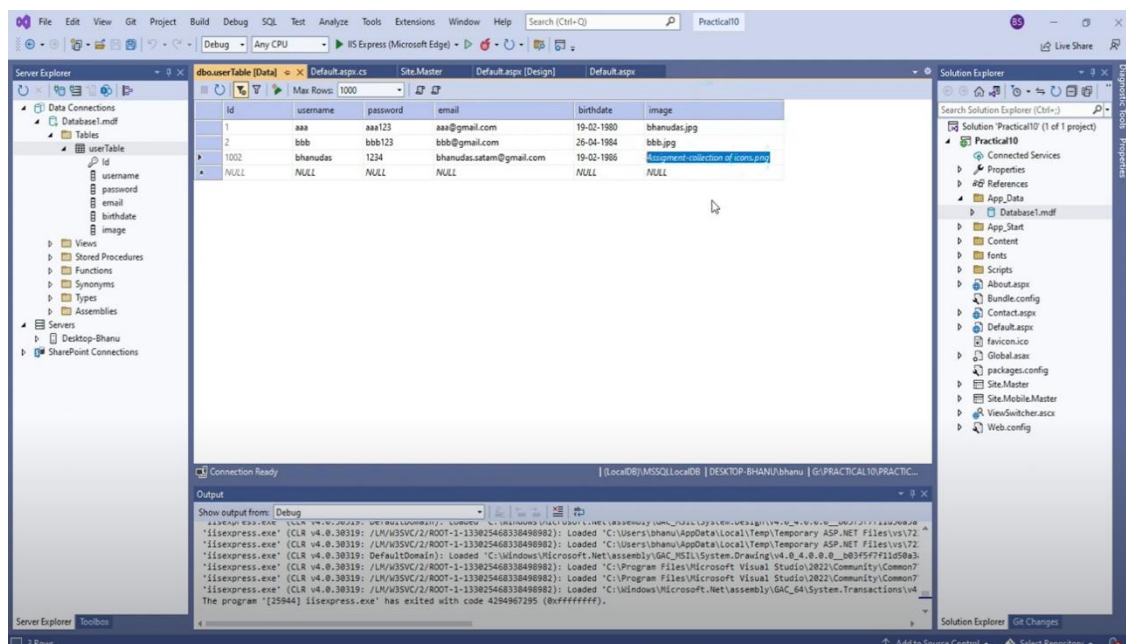
Application name Home About Contact

Practical 10 - Understand the use of ADO.NET control

Registration-Form

Username	<input type="text" value="sam"/>
Password	<input type="password" value="..."/>
Confirm Password	<input type="password" value="..."/>
Email	<input type="text" value="sam@gmail.com"/>
Date of Birth	<input type="text" value="13-03-2005"/> <input type="button" value=""/>
Image	<input type="button" value="Choose File"/> rrr.jpg
<input type="button" value="Registration"/>	

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Practical No: 12	Date:16/06/2022
Aim:	Create a webpage that demonstrates the use of data bound controls of ASP.NET.
<p>Which has following structure</p> <ul style="list-style-type: none"> • Empid • EmpName • EmpPost • EmpSal • Dept <p>Create Add/Modify/Delete/Search functionality using ADO.NET controls</p>	
<p>Source Code:</p> <p>Default.aspx</p> <pre> <%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="Practical12_CRUD_operations._Default" %> <asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server"> <table class="table" style="width: 100%;"> <tr> <th colspan="3" align="center"><h2>Employee Data Entry</h2></th> </tr> <tr> <td colspan="3"> <asp:Literal ID="Literal1" runat="server"></asp:Literal></td> </tr> <tr> <td> <asp:Label ID="Label5" runat="server" Text="Employee id"></asp:Label></td> <td colspan="2"> <asp:DropDownList ID="DropDownList1" runat="server" OnSelectedIndexChanged="DropDownList1_SelectedIndexChanged" AutoPostBack="True"></asp:DropDownList></td> </tr> <tr> <td> <asp:Label ID="Label1" runat="server" Text="Employee Name"></asp:Label></td> <td> <asp:TextBox ID="txtEmployeeName" runat="server" AutoPostBack="True"></asp:TextBox></td> <td> <asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server" ErrorMessage="Empname is required" ControlToValidate="txtEmployeeName"></asp:RequiredFieldValidator></td> </tr> <tr> <td> <asp:Label ID="Label2" runat="server" Text="Employee Post"></asp:Label></td> <td> </pre>	

```

        <asp:TextBox ID="txtEmployeePost" runat="server"
AutoPostBack="True"></asp:TextBox></td>
        <td>
            <asp:RequiredFieldValidator ID="RequiredFieldValidator2"
runat="server" ErrorMessage="Employee Post is required"
ControlToValidate="txtEmployeePost"></asp:RequiredFieldValidator></td>
        </tr>
        <tr>
            <td>
                <asp:Label ID="Label3" runat="server" Text="Employee
Salary"></asp:Label></td>
            <td>
                <asp:TextBox ID="txtEmployeeSal" runat="server"
AutoPostBack="True"></asp:TextBox></td>
            <td>
                <asp:RequiredFieldValidator ID="RequiredFieldValidator3"
runat="server" ErrorMessage="Employee Salary is required"
ControlToValidate="txtEmployeeSal"></asp:RequiredFieldValidator></td>
            </tr>
            <tr>
                <td>
                    <asp:Label ID="Label4" runat="server"
Text="Department"></asp:Label></td>
                <td>
                    <asp:TextBox ID="txtEmployeeDept" runat="server"
AutoPostBack="True"></asp:TextBox></td>
                <td>
                    <asp:RequiredFieldValidator ID="RequiredFieldValidator4"
runat="server" ErrorMessage="Department is required"
ControlToValidate="txtEmployeeDept"></asp:RequiredFieldValidator></td>
            </tr>
            <tr>
                <td colspan="3">
                    <asp:Button ID="Button1" runat="server" Text="Insert"
OnClick="Button1_Click" />&nbsp;
                    <asp:Button ID="Button2" runat="server" Text="Update"
OnClick="Button2_Click" />&nbsp;
                    <asp:Button ID="Button3" runat="server" Text="Delete"
OnClick="Button3_Click" />&nbsp;
                    <asp:Button ID="Button4" runat="server" Text="Detail" />&nbsp;

                </td>
            </tr>
        </table>

</asp:Content>

```

Default.aspx.cs

```

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

namespace Practical12_CRUD_operations
{
    public partial class _Default : Page
    {

```

```

String constr;
SqlConnection conn;
SqlDataAdapter adapter;
DataSet ds;
protected void Page_Load(object sender, EventArgs e)
{
    //Code for inserting record
    if(!IsPostBack)
    {
        constr = "Data
Source=(LocalDB)\\MSSQLLocalDB;AttachDbFilename=|DataDirectory|\\Database1.mdf;Integra
ted Security=True";
        conn = new SqlConnection(constr);
        adapter = new SqlDataAdapter("select * from employee", conn);
        ds = new DataSet();
        adapter.Fill(ds, "tempEmployee");
        for (int i = 0; i < ds.Tables[0].Rows.Count; i++)
        {
            DropDownList1.Items.Add(ds.Tables[0].Rows[i].ItemArray[0].ToString());
        }
        txtEmployeeName.Text = ds.Tables[0].Rows[0].ItemArray[1].ToString();
        txtEmployeePost.Text = ds.Tables[0].Rows[0].ItemArray[2].ToString();
        txtEmployeeSal.Text = ds.Tables[0].Rows[0].ItemArray[3].ToString();
        txtEmployeeDept.Text = ds.Tables[0].Rows[0].ItemArray[4].ToString();
    }
}

protected void Button1_Click(object sender, EventArgs e)
{
    //Code for inserting record
    constr = "Data
Source=(LocalDB)\\MSSQLLocalDB;AttachDbFilename=|DataDirectory|\\Database1.mdf;Integra
ted Security=True";
    //step 1 Create connection
    conn = new SqlConnection(constr);
    //step 2 Create Data Adapter
    adapter = new SqlDataAdapter("select * from employee", conn);
    SqlCommandBuilder sqlCommandBuilder = new SqlCommandBuilder(adapter);
    //step 3 Create Data Set object
    ds = new DataSet();
    //step 4 Filling Query result result into data set
    adapter.Fill(ds, "tempEmployee");
    //step 5 Create a new Row
    DataRow myrow = ds.Tables["tempEmployee"].NewRow();
    //step 6 Adding the textbox content to respective row fields
    myrow["empname"] = txtEmployeeName.Text;
    myrow["emppost"] = txtEmployeePost.Text;
    myrow["empsal"] = Convert.ToInt32(txtEmployeeSal.Text);
    myrow["deptid"] = Convert.ToInt32(txtEmployeeDept.Text);

    //step 7 Adding the row to data set
    ds.Tables["tempEmployee"].Rows.Add(myrow);

    //step 8 updating database using data adapter

    adapter.Update(ds, "tempEmployee");
    Literal1.Text = "Record inserted successfully";
}

```

```

    }

    protected void Button2_Click(object sender, EventArgs e)
    {
        //code for updating record

        constr = "Data
Source=(LocalDB)\\MSSQLLocalDB;AttachDbFilename=|DataDirectory|\\Database1.mdf;Integra
ted Security=True";
        //step 1 Create connection
        conn = new SqlConnection(constr);
        int id = Convert.ToInt16(DropDownList1.SelectedValue);
        //step 2 Create Data Adapter
        adapter = new SqlDataAdapter("select * from employee where empid="+id,
conn);

        SqlCommandBuilder sqlCommandBuilder = new SqlCommandBuilder(adapter);
        //step 3 Create Data Set object
        ds = new DataSet();
        //step 4 Filling Query result into data set
        adapter.Fill(ds, "tempEmployee");
        //step 5 Create DataRow object
        DataRow dr = ds.Tables["tempEmployee"].Rows[0];
        dr["empname"] = txtEmployeeName.Text;
        dr["empid"] = txtEmployeePost.Text;
        dr["empsal"] = txtEmployeeSal.Text;
        dr["deptid"] = txtEmployeeDept.Text;
        //step 6 update the record to database
        adapter.Update(ds, "tempEmployee");
        Literal1.Text = "Record updated successfully";
    }

    protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs e)
    {
        constr = "Data
Source=(LocalDB)\\MSSQLLocalDB;AttachDbFilename=|DataDirectory|\\Database1.mdf;Integra
ted Security=True";
        conn = new SqlConnection(constr);
        String id = DropDownList1.SelectedValue;
        adapter = new SqlDataAdapter("select * from employee where empid="+id,
conn);

        ds = new DataSet();
        adapter.Fill(ds, "tempEmployee");
        txtEmployeeName.Text = ds.Tables[0].Rows[0].ItemArray[1].ToString();
        txtEmployeePost.Text= ds.Tables[0].Rows[0].ItemArray[2].ToString();
        txtEmployeeSal.Text= ds.Tables[0].Rows[0].ItemArray[3].ToString();
        txtEmployeeDept.Text= ds.Tables[0].Rows[0].ItemArray[4].ToString();
    }

    protected void Button3_Click(object sender, EventArgs e)
    {
        //code for deleting record

        constr = "Data
Source=(LocalDB)\\MSSQLLocalDB;AttachDbFilename=|DataDirectory|\\Database1.mdf;Integra
ted Security=True";
        //step 1 Create connection
        conn = new SqlConnection(constr);
        int id = Convert.ToInt16(DropDownList1.SelectedValue);
        //step 2 Create Data Adapter
        adapter = new SqlDataAdapter("select * from employee where empid=" + id,
conn);

```

```

SqlCommandBuilder sqlCommandBuilder = new SqlCommandBuilder(adapter);
//step 3 Create Data Set object
ds = new DataSet();
//step 4 Filling Query result result into data set
adapter.Fill(ds, "tempEmployee");
//step 5 deleting row from dataset
ds.Tables["tempEmployee"].Rows[0].Delete();
//step 6 updating the database
adapter.Update(ds, "tempEmployee");
Literal1.Text = "Record Deleted successfully";
    }
}
}

```

Output :

Application name
Home
About
Contact

Employee Data Entry

Employee id	<input type="text"/>
Employee Name	<input type="text"/>
Employee Post	<input type="text"/>
Employee Salary	<input type="text"/>
Department	<input type="text"/>

Insert
Update
Delete
Detail

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Application name
Home
About
Contact

Employee Data Entry

Record inserted successfully

Employee id	<input type="text"/>
Employee Name	<input type="text" value="aaa"/>
Employee Post	<input type="text" value="Programmer"/>
Employee Salary	<input type="text" value="50000"/>
Department	<input type="text" value="10"/>

Insert
Update
Delete
Detail

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Practical No.: 13		Date: 21/06/2022
Aim:	Design a webpage to demonstrate the working of a simple stored procedure.	
Create CRUD web Application by using following Model [Class Employee] Which has following structure		
<ul style="list-style-type: none">• Empid• EmpName• EmpPost• EmpSal• Dept		
Create Add/Modify/Delete/Search functionality using store procedure		
Source:		
<pre>//Default.aspx <%@PageTitle="Home Page"Language="C#"MasterPageFile="~/Site.Master"AutoEventWireup="true"CodeBehind="Default.aspx.cs" Inherits="Practical_13_CRUD_operations_using_Store_Procedure._Default"%> <asp:ContentID="BodyContent"ContentPlaceHolderID="MainContent"runat="server"> <tableclass="table"style="width: 100%;"> <tr> <thcolspan="3"align="center"><h2>Employee Data Entry</h2></th> </tr> <tr> <tdcolspan="3"> <asp:LiteralID="Literal1"runat="server"></asp:Literal></td> </tr> <tr> <td> <asp:LabelID="Label5"runat="server"Text="Employee id"></asp:Label></td> <tdcolspan="2"> <asp:DropDownListID="DropDownList1"runat="server"OnSelectedIndexChanged="DropDownList1_SelectedIndexChanged"AutoPostBack="True"></asp:DropDownList></td> </tr> <tr> <td> <asp:LabelID="Label1"runat="server"Text="Employee Name"></asp:Label></td> <td> <asp:TextBoxID="txtEmployeeName"runat="server"AutoPostBack="True"></asp:TextBox></td> <td> <asp:RequiredFieldValidatorID="RequiredFieldValidator1"runat="server"ErrorMessage="Empname is required"ControlToValidate="txtEmployeeName"></asp:RequiredFieldValidator></td> </tr> <tr> <td> <asp:LabelID="Label2"runat="server"Text="Employee Post"></asp:Label></td> <td> <asp:TextBoxID="txtEmployeePost"runat="server"AutoPostBack="True"></asp:TextBox></td> </tr> </table> </asp:Content></pre>		


```

<asp:RequiredFieldValidatorID="RequiredFieldValidator2"runat="server"ErrorMessage="E
mployee Post is
required"ControlToValidate="txtEmployeePost"></asp:RequiredFieldValidator></td>
</tr>
<tr>
<td>
<asp:LabelID="Label3"runat="server"Text="Employee Salary"></asp:Label></td>
<td>
<asp:TextBoxID="txtEmployeeSal"runat="server"AutoPostBack="True"></asp:TextBox></td>
<td>
<asp:RequiredFieldValidatorID="RequiredFieldValidator3"runat="server"ErrorMessage="E
mployee Salary is
required"ControlToValidate="txtEmployeeSal"></asp:RequiredFieldValidator></td>
</tr>
<tr>
<td>
<asp:LabelID="Label4"runat="server"Text="Department"></asp:Label></td>
<td>
<asp:TextBoxID="txtEmployeeDept"runat="server"AutoPostBack="True"></asp:TextBox></td>
<td>
<asp:RequiredFieldValidatorID="RequiredFieldValidator4"runat="server"ErrorMessage="D
epartment is
required"ControlToValidate="txtEmployeeDept"></asp:RequiredFieldValidator></td>
</tr>
<tr>
<td colspan="3">
<asp:ButtonID="Button1"runat="server"Text="Insert"OnClick="Button1_Click"/>&nbsp;
<asp:ButtonID="Button2"runat="server"Text="Update"OnClick="Button2_Click"/>&nbsp;
<asp:ButtonID="Button3"runat="server"Text="Delete"OnClick="Button3_Click"/>&nbsp;
<asp:ButtonID="Button4"runat="server"Text="Detail"/>&nbsp;

</tr>
</table>

```

```

</asp:Content>

```

```

//Default.aspx.cs
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Data.SqlClient;
namespace Practical_13_CRUD_operations_using_Store_Procedure
{
    public partial class Default : Page
    {
        String constr;
        SqlConnection conn;
        SqlDataAdapter adapter;
        DataSet ds;
        SqlCommand cmd;
        protected void Page_Load(object sender, EventArgs e)
        {
            //Code for inserting record
            if (!IsPostBack)
            {

```

```

constr = "Data
Source=(LocalDB)\\MSSQLLocalDB;AttachDbFilename=|DataDirectory|\\Database1.mdf;Integrated Security=True";
        conn = new SqlConnection(constr);
cmd = new SqlCommand("sp_emp_selectAll", conn);
        adapter = new SqlDataAdapter(cmd.CommandText, conn);
        ds = new DataSet();
adapter.Fill(ds, "tempEmployee");
for (inti = 0; i<ds.Tables[0].Rows.Count; i++)
    {

DropDownList1.Items.Add(ds.Tables[0].Rows[i].ItemArray[0].ToString());

    }
txtEmployeeName.Text = ds.Tables[0].Rows[0].ItemArray[1].ToString();
txtEmployeePost.Text = ds.Tables[0].Rows[0].ItemArray[2].ToString();
txtEmployeeSal.Text = ds.Tables[0].Rows[0].ItemArray[3].ToString();
txtEmployeeDept.Text = ds.Tables[0].Rows[0].ItemArray[4].ToString();
    }
}

protected void DropDownList1_SelectedIndexChanged(object sender, EventArgs e)
    {
constr = "Data
Source=(LocalDB)\\MSSQLLocalDB;AttachDbFilename=|DataDirectory|\\Database1.mdf;Integrated Security=True";
        conn = new SqlConnection(constr);
cmd = new SqlCommand();
        String id = DropDownList1.SelectedValue;
        adapter = new SqlDataAdapter("select * from employee where empid=" + id,
conn);
        ds = new DataSet();
adapter.Fill(ds, "tempEmployee");
txtEmployeeName.Text = ds.Tables[0].Rows[0].ItemArray[1].ToString();
txtEmployeePost.Text = ds.Tables[0].Rows[0].ItemArray[2].ToString();
txtEmployeeSal.Text = ds.Tables[0].Rows[0].ItemArray[3].ToString();
txtEmployeeDept.Text = ds.Tables[0].Rows[0].ItemArray[4].ToString();
    }

protected void Button1_Click(object sender, EventArgs e)
    {
//Code for inserting record
constr = "Data
Source=(LocalDB)\\MSSQLLocalDB;AttachDbFilename=|DataDirectory|\\Database1.mdf;Integrated Security=True";
//step 1 Create connection
        conn = new SqlConnection(constr);
//step 2 Create Command object
cmd = new SqlCommand("sp_emp_insert", conn);
cmd.CommandType = CommandType.StoredProcedure;
cmd.Parameters.AddWithValue("@empname", txtEmployeeName.Text);
cmd.Parameters.AddWithValue("@emppost", txtEmployeePost.Text);
cmd.Parameters.AddWithValue("@empsal", txtEmployeeSal.Text);
cmd.Parameters.AddWithValue("@deptid", txtEmployeeDept.Text);
conn.Open();
cmd.ExecuteNonQuery();
conn.Close();
        Literal1.Text = "Record inserted successfully";
    }

protected void Button2_Click(object sender, EventArgs e)
    {
//updating record

```

```

//Code for updating record
constr = "Data
Source=(LocalDB)\\MSSQLLocalDB;AttachDbFilename=|DataDirectory|\\Database1.mdf;Integrated Security=True";
//step 1 Create connection
conn = new SqlConnection(constr);
//step 2 Create Command object
cmd = new SqlCommand("sp_emp_update", conn);
cmd.CommandType = CommandType.StoredProcedure;
cmd.Parameters.AddWithValue("@empname", txtEmployeeName.Text);
cmd.Parameters.AddWithValue("@emppost", txtEmployeePost.Text);
cmd.Parameters.AddWithValue("@empsal", txtEmployeeSal.Text);
cmd.Parameters.AddWithValue("@deptid", txtEmployeeDept.Text);
cmd.Parameters.AddWithValue("@empid", DropDownList1.SelectedValue);
conn.Open();
cmd.ExecuteNonQuery();
conn.Close();
Literal1.Text = "Record Updated successfully";
}

protected void Button3_Click(object sender, EventArgs e)
{
//deleting record
//Code for deleting record
constr = "Data
Source=(LocalDB)\\MSSQLLocalDB;AttachDbFilename=|DataDirectory|\\Database1.mdf;Integrated Security=True";
//step 1 Create connection
conn = new SqlConnection(constr);
//step 2 Create Command object
cmd = new SqlCommand("sp_emp_delete", conn);
cmd.CommandType = CommandType.StoredProcedure;
cmd.Parameters.AddWithValue("@empid", DropDownList1.SelectedValue);
conn.Open();
cmd.ExecuteNonQuery();
conn.Close();
Literal1.Text = "Record deleted successfully";
}
}
}

```

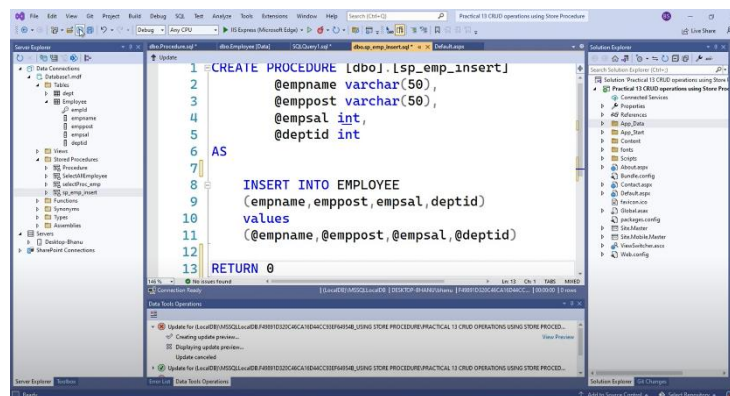
Output:

The screenshot shows a web application titled "Employee Data Entry". At the top, there is a navigation bar with links for "Application name", "Home", "About", and "Contact". Below the navigation bar, the main content area contains a form with the following fields:

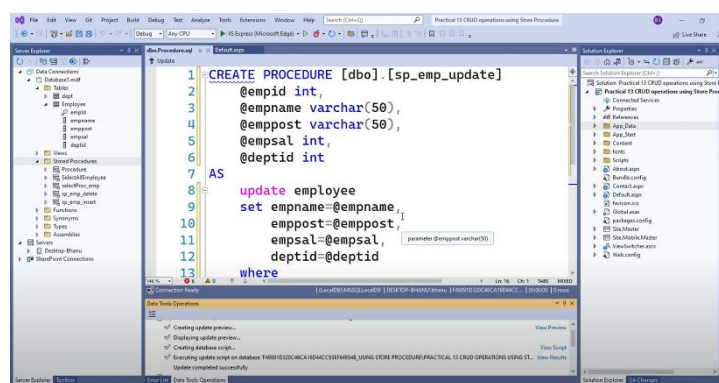
- Employee id: A dropdown menu with a downward arrow.
- Employee Name: A text input field.
- Employee Post: A text input field.
- Employee Salary: A text input field.
- Department: A text input field.

Below the form fields, there are four buttons: "Insert", "Update", "Delete", and "Detail". At the bottom of the page, there is a footer that reads "© 2022 - My ASP.NET Application".

Insertion Stored procedure:

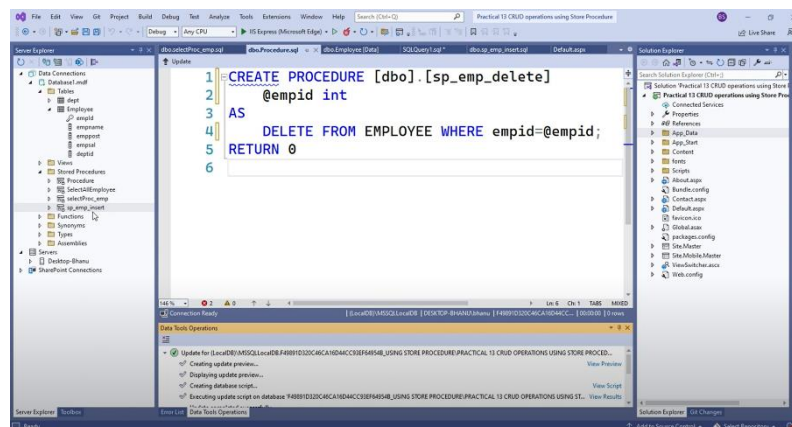


Updation Stored Procedure:

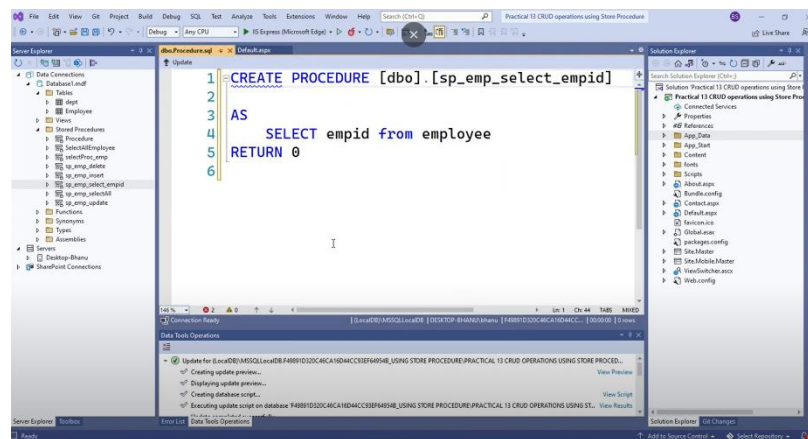


where
empid=@empid
RETURN 0

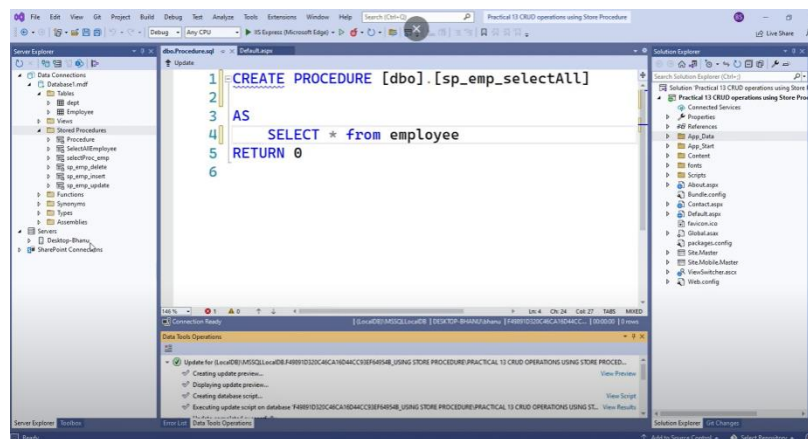
Deletion Stored Procedure



Selection of one details stored procedure:



Selection of all details stored procedure:



Insertion Output:

Application name
Home
About
Contact

Employee Data Entry

Record inserted successfully

Employee id	6
Employee Name	Shailesh
Employee Post	Programmer
Employee Salary	65000
Department	20

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Updation Output:

[Application name](#) [Home](#) [About](#) [Contact](#)

Employee Data Entry

Record inserted successfully

Employee Id	3
Employee Name	Ritesh
Employee Post	Programmer
Employee Salary	85000
Department	10

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Selection Output:

[Application name](#) [Home](#) [About](#) [Contact](#)

Employee Data Entry

Employee Id	9
Employee Name	Shailesh
Employee Post	Programmer
Employee Salary	65000
Department	20

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Deletion Output:

[Application name](#) [Home](#) [About](#) [Contact](#)

Employee Data Entry

Record deleted successfully

Employee Id	5
Employee Name	eee
Employee Post	Accountant
Employee Salary	45000
Department	20

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Practical No.: 16		Date: 05/07/2022
Aim:	Build websites to demonstrate the working of entity framework in dot net.	
Create CRUD web Application by using following Model [Class Employee] Which has following structure		
<ul style="list-style-type: none">• Empid• EmpName• EmpPost• EmpSal• Dept		
Create Entity for each module and implement Add/Modify/Delete/Search functionality		
Source:		
<p>Models</p> <p>Model1.cs</p> <pre>using System; using System.ComponentModel.DataAnnotations.Schema; using System.Data.Entity; using System.Linq; namespace Practical_14.Models { public partial class Model1 : DbContext { public Model1() : base("name=Model1") { } public virtual DbSet<Employee> Employees { get; set; } protected override void OnModelCreating(DbModelBuilder modelBuilder) { modelBuilder.Entity<Employee>() .Property(e => e.Empname) .IsUnicode(false); modelBuilder.Entity<Employee>() .Property(e => e.Emppost) .IsUnicode(false); modelBuilder.Entity<Employee>() .Property(e => e.Dept) .IsFixedLength(); } } }</pre> <p>Employee.cs</p> <pre>namespace Practical_14.Models { using System; using System.Collections.Generic; using System.ComponentModel.DataAnnotations; using System.ComponentModel.DataAnnotations.Schema; using System.Data.Entity.Spatial;</pre>		

```

        [Table("Employee")]
publicpartialclassEmployee
{
    [Key]
publicintEmpId { get; set; }

    [Required]
    [StringLength(50)]
publicstringEmpname { get; set; }

    [Required]
    [StringLength(50)]
publicstringEmppost { get; set; }

publicintEmpsalary { get; set; }

    [Required]
    [StringLength(10)]
publicstring Dept { get; set; }
}
}

```

View

Index.cshtml

```
@model IEnumerable<Practical_14.Models.Employee>
```

```

@{
    ViewBag.Title = "Index";
}

```

```
<h2>Index</h2>
```

```

<p>
@Html.ActionLink("Create New", "Create")
</p>
<tableclass="table">
<tr>
<th>
@Html.DisplayNameFor(model =>model.Empname)
</th>
<th>
@Html.DisplayNameFor(model =>model.Emppost)
</th>
<th>
@Html.DisplayNameFor(model =>model.Empsalary)
</th>
<th>
@Html.DisplayNameFor(model =>model.Dept)
</th>
<th></th>
</tr>

```

```

@foreach (var item in Model) {
<tr>
<td>
@Html.DisplayFor(modelItem =>item.Empname)
</td>
<td>
@Html.DisplayFor(modelItem =>item.Emppost)
</td>

```



```

<td>
@Html.DisplayFor(modelItem =>item.Empsalary)
</td>
<td>
@Html.DisplayFor(modelItem =>item.Dept)
</td>
<td>
@Html.ActionLink("Edit", "Edit", new { id=item.EmpId }) |
@Html.ActionLink("Details", "Details", new { id=item.EmpId }) |
@Html.ActionLink("Delete", "Delete", new { id=item.EmpId })
</td>
</tr>
}

</table>

```

Create.cshtml

```
@model Practical_14.Models.Employee
```

```

@{
ViewBag.Title = "Create";
}

```

```
<h2>Create</h2>
```

```

@using (Html.BeginForm())
{
@Html.AntiForgeryToken()

```

```

<divclass="form-horizontal">
<h4>Employee</h4>
<hr/>

```

```

@Html.ValidationSummary(true, "", new { @class = "text-danger" })
<divclass="form-group">
@Html.LabelFor(model =>model.Empname, htmlAttributes: new { @class = "control-label
col-md-2" })
<divclass="col-md-10">
@Html.EditorFor(model =>model.Empname, new { htmlAttributes = new { @class = "form-
control" } })
@Html.ValidationMessageFor(model =>model.Empname, "", new { @class = "text-danger"
})
</div>
</div>

```

```

<divclass="form-group">
@Html.LabelFor(model =>model.Emppost, htmlAttributes: new { @class = "control-label
col-md-2" })
<divclass="col-md-10">
@Html.EditorFor(model =>model.Emppost, new { htmlAttributes = new { @class = "form-
control" } })
@Html.ValidationMessageFor(model =>model.Emppost, "", new { @class = "text-danger"
})
</div>
</div>

```

```

<divclass="form-group">
@Html.LabelFor(model =>model.Empsalary, htmlAttributes: new { @class = "control-
label col-md-2" })
<divclass="col-md-10">
@Html.EditorFor(model =>model.Empsalary, new { htmlAttributes = new { @class =
"form-control" } })

```

```

@Html.ValidationMessageFor(model =>model.Empsalary, "", new { @class = "text-danger"
})
</div>
</div>

<divclass="form-group">
@Html.LabelFor(model =>model.Dept, htmlAttributes: new { @class = "control-label
col-md-2" })
<divclass="col-md-10">
@Html.EditorFor(model =>model.Dept, new { htmlAttributes = new { @class = "form-
control" } })
@Html.ValidationMessageFor(model =>model.Dept, "", new { @class = "text-danger" })
</div>
</div>

<divclass="form-group">
<divclass="col-md-offset-2 col-md-10">
<inputtype="submit"value="Create"class="btnbtn-default"/>
</div>
</div>
</div>
}

```

```

<div>
@Html.ActionLink("Back to List", "Index")
</div>

```

Edit.cshtml

```
@model Practical_14.Models.Employee
```

```

@{
ViewBag.Title = "Edit";
}

```

```
<h2>Edit</h2>
```

```
@using (Html.BeginForm())
```

```

{
@Html.AntiForgeryToken()

```

```
<divclass="form-horizontal">
```

```
<h4>Employee</h4>
```

```
<hr/>
```

```
@Html.ValidationSummary(true, "", new { @class = "text-danger" })
```

```
@Html.HiddenFor(model =>model.EmpId)
```

```
<divclass="form-group">
```

```
@Html.LabelFor(model =>model.Empname, htmlAttributes: new { @class = "control-label
col-md-2" })
```

```
<divclass="col-md-10">
```

```
@Html.EditorFor(model =>model.Empname, new { htmlAttributes = new { @class = "form-
control" } })
```

```
@Html.ValidationMessageFor(model =>model.Empname, "", new { @class = "text-danger"
})
```

```
</div>
```

```
</div>
```

```
<divclass="form-group">
```

```
@Html.LabelFor(model =>model.Emppost, htmlAttributes: new { @class = "control-label
col-md-2" })
```

```
<divclass="col-md-10">
```

```

@Html.EditorFor(model =>model.Emppost, new { htmlAttributes = new { @class = "form-control" } })
@Html.ValidationMessageFor(model =>model.Emppost, "", new { @class = "text-danger" })
</div>
</div>

<divclass="form-group">
@Html.LabelFor(model =>model.Empsalary, htmlAttributes: new { @class = "control-label col-md-2" })
<divclass="col-md-10">
@Html.EditorFor(model =>model.Empsalary, new { htmlAttributes = new { @class = "form-control" } })
@Html.ValidationMessageFor(model =>model.Empsalary, "", new { @class = "text-danger" })
</div>
</div>

<divclass="form-group">
@Html.LabelFor(model =>model.Dept, htmlAttributes: new { @class = "control-label col-md-2" })
<divclass="col-md-10">
@Html.EditorFor(model =>model.Dept, new { htmlAttributes = new { @class = "form-control" } })
@Html.ValidationMessageFor(model =>model.Dept, "", new { @class = "text-danger" })
</div>
</div>

<divclass="form-group">
<divclass="col-md-offset-2 col-md-10">
<inputtype="submit"value="Save"class="btn btn-default"/>
</div>
</div>
</div>
}

```

```

<div>
@Html.ActionLink("Back to List", "Index")
</div>

```

Details.cshtml

```
@model Practical_14.Models.Employee
```

```

@{
    ViewBag.Title = "Details";
}

```

```
<h2>Details</h2>
```

```

<div>
<h4>Employee</h4>
<hr/>
<dlclass="dl-horizontal">
<dt>
@Html.DisplayNameFor(model =>model.Empname)
</dt>

<dd>
@Html.DisplayFor(model =>model.Empname)
</dd>

<dt>

```

```

@Html.DisplayNameFor(model =>model.Emppost)
</dt>

<dd>
@Html.DisplayFor(model =>model.Emppost)
</dd>

<dt>
@Html.DisplayNameFor(model =>model.Empsalary)
</dt>

<dd>
@Html.DisplayFor(model =>model.Empsalary)
</dd>

<dt>
@Html.DisplayNameFor(model =>model.Dept)
</dt>

<dd>
@Html.DisplayFor(model =>model.Dept)
</dd>

</dl>
</div>
<p>
@Html.ActionLink("Edit", "Edit", new { id = Model.EmpId }) |
@Html.ActionLink("Back to List", "Index")
</p>

```

Delete.cshtml

```

@model Practical_14.Models.Employee

@{
    ViewBag.Title = "Delete";
}

<h2>Delete</h2>

<h3>Are you sure you want to delete this?</h3>
<div>
<h4>Employee</h4>
<hr/>
<dlclass="dl-horizontal">
<dt>
@Html.DisplayNameFor(model =>model.Empname)
</dt>

<dd>
@Html.DisplayFor(model =>model.Empname)
</dd>

<dt>
@Html.DisplayNameFor(model =>model.Emppost)
</dt>

<dd>
@Html.DisplayFor(model =>model.Emppost)
</dd>

<dt>
@Html.DisplayNameFor(model =>model.Empsalary)

```

```

</dt>

<dd>
@Html.DisplayFor(model =>model.Empsalary)
</dd>

<dt>
@Html.DisplayNameFor(model =>model.Dept)
</dt>

<dd>
@Html.DisplayFor(model =>model.Dept)
</dd>

</dl>

@using (Html.BeginForm()) {
@Html.AntiForgeryToken()

<div class="form-actions no-color">
<input type="submit" value="Delete" class="btn btn-default"/> |
@Html.ActionLink("Back to List", "Index")
</div>
}
</div>

```

Controller

EmployeeController.cs

```

using System;
using System.Collections.Generic;
using System.Data;
using System.Data.Entity;
using System.Linq;
using System.Net;
using System.Web;
using System.Web.Mvc;
using Practical_14.Models;

namespace Practical_14.Controllers
{
    public class EmployeesController : Controller
    {
        private Model1 db = new Model1();

        // GET: Employees
        public ActionResult Index()
        {
            return View(db.Employees.ToList());
        }

        // GET: Employees/Details/5
        public ActionResult Details(int? id)
        {
            if (id == null)
            {
                return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
            }
            Employee employee = db.Employees.Find(id);
            if (employee == null)
            {

```

```

return HttpNotFound();
    }
return View(employee);
    }

// GET: Employees/Create
public ActionResult Create()
{
return View();
}

// POST: Employees/Create
// To protect from overposting attacks, enable the specific properties you want to
bind to, for
// more details see https://go.microsoft.com/fwlink/?LinkId=317598.
    [HttpPost]
    [ValidateAntiForgeryToken]
public ActionResult Create([Bind(Include = "EmpId,Empname,Emppost,Empsalary,Dept")]
Employee employee)
{
    if (ModelState.IsValid)
    {
        db.Employees.Add(employee);
        db.SaveChanges();
        return RedirectToAction("Index");
    }

return View(employee);
}

// GET: Employees/Edit/5
public ActionResult Edit(int? id)
{
    if (id == null)
    {
        return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
    }
    Employee employee = db.Employees.Find(id);
    if (employee == null)
    {
        return HttpNotFound();
    }
return View(employee);
}

// POST: Employees/Edit/5
// To protect from overposting attacks, enable the specific properties you want to
bind to, for
// more details see https://go.microsoft.com/fwlink/?LinkId=317598.
    [HttpPost]
    [ValidateAntiForgeryToken]
public ActionResult Edit([Bind(Include = "EmpId,Empname,Emppost,Empsalary,Dept")]
Employee employee)
{
    if (ModelState.IsValid)
    {
        db.Entry(employee).State = EntityState.Modified;
        db.SaveChanges();
        return RedirectToAction("Index");
    }
return View(employee);
}

```

```

// GET: Employees/Delete/5
public ActionResult Delete(int? id)
{
    if (id == null)
    {
        return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
    }
    Employee employee = db.Employees.Find(id);
    if (employee == null)
    {
        return HttpNotFound();
    }
    return View(employee);
}

// POST: Employees/Delete/5
[HttpPost, ActionName("Delete")]
[ValidateAntiForgeryToken]
public ActionResult DeleteConfirmed(int id)
{
    Employee employee = db.Employees.Find(id);
    db.Employees.Remove(employee);
    db.SaveChanges();
    return RedirectToAction("Index");
}

protected override void Dispose(bool disposing)
{
    if (disposing)
    {
        db.Dispose();
    }
    base.Dispose(disposing);
}
}

```

Output:		
----------------	--	--

Index page output

[Application name](#) [Home](#) [About](#) [Contact](#) [Product](#)

Index

[Create New](#)

Empname	Emppost	Empsalary	Dept
---------	---------	-----------	------

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Employee Creation Output:

[Application name](#) [Home](#) [About](#) [Contact](#) [Product](#)

Create

Employee

Empname

Emppost

Empsalary

Dept

[Back to List](#)

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[Application name](#) [Home](#) [About](#) [Contact](#) [Product](#)

Index

[Create New](#)

Empname	Emppost	Empsalary	Dept	
Bhanudas	Manager	150000	10	Edit Details Delete

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Edit Output:

Application name Home About Contact Product

Edit
Employee

Empname

Bhanudas

Emppost

Manager

Empsalary

150000

Dept

10

Save

[Back to List](#)

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Application name Home About Contact Product

Edit
Employee

Empname

Bhanudas Satam

Emppost

Manager

Empsalary

150000

Dept

20

Save

[Back to List](#)

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Application name Home About Contact Product

Index

[Create New](#)

Empname	Emppost	Empsalary	Dept	
Bhanudas Satam	Manager	150000	20	Edit Details Delete

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Details Output:

Application name Home About Contact Product

Details
Employee

Emppost	Bhanudas Satam Manager
Empsalary	150000
Dept	20

Edit | Back to List

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Deletion Output

Application name Home About Contact Product

Delete
Are you sure you want to delete this?
Employee

Emppost	Bhanudas Satam Manager
Empsalary	150000
Dept	20

Delete | Back to List

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Application name Home About Contact Product

Index
[Create New](#)

Emppost	Empsalary	Dept
---------	-----------	------

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