OOP Lab Task 3/4

Name: Shahmeer Khan.

Student Id: 12113.

Class Id: 106278.

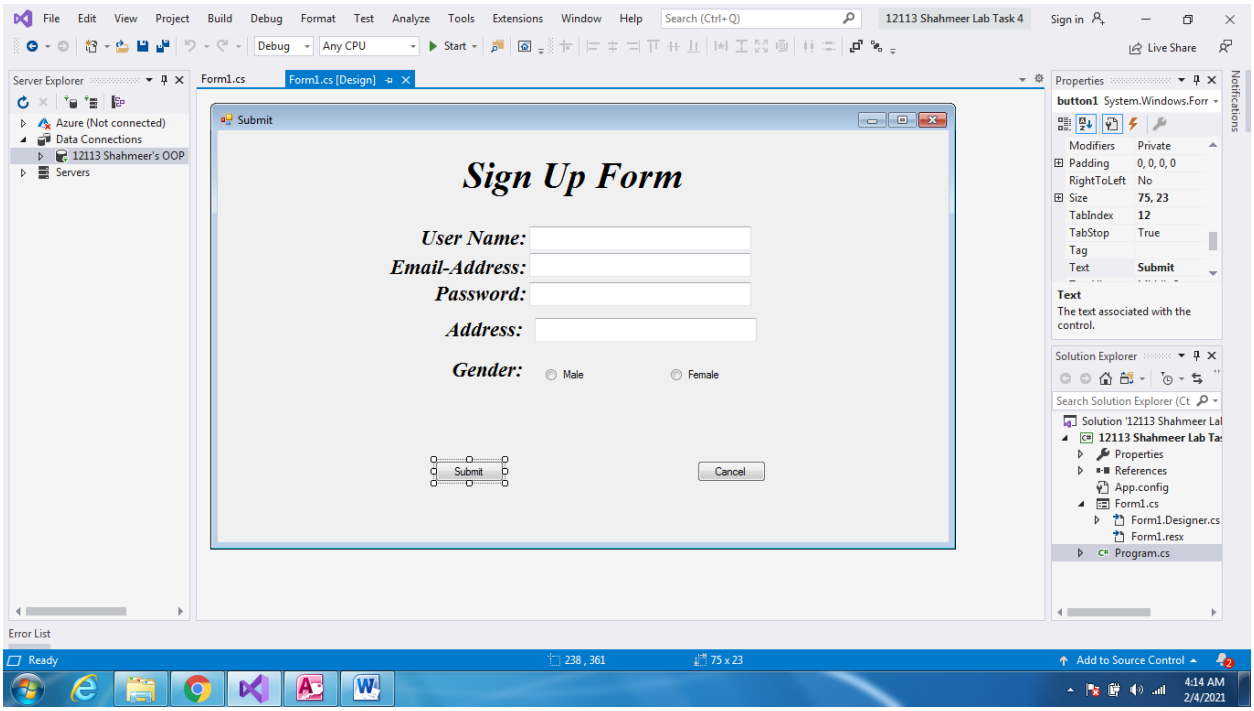
Lab Task 3(Win Form one):

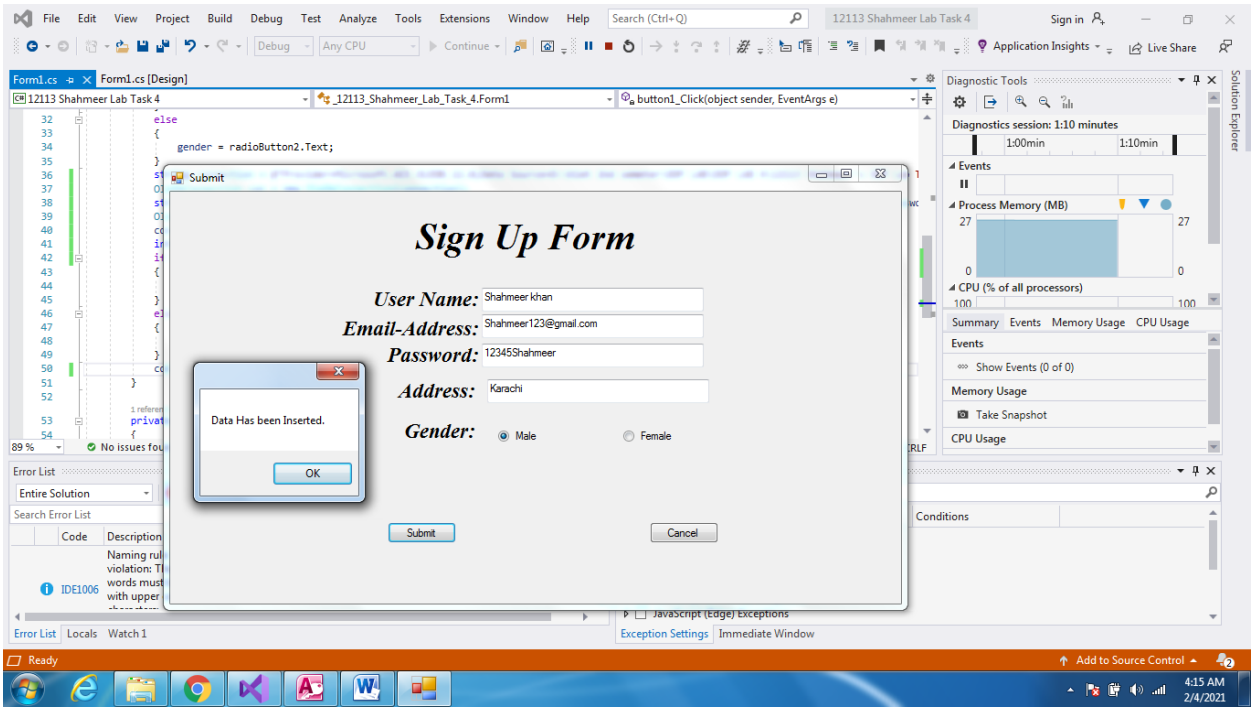
Inputted Code:

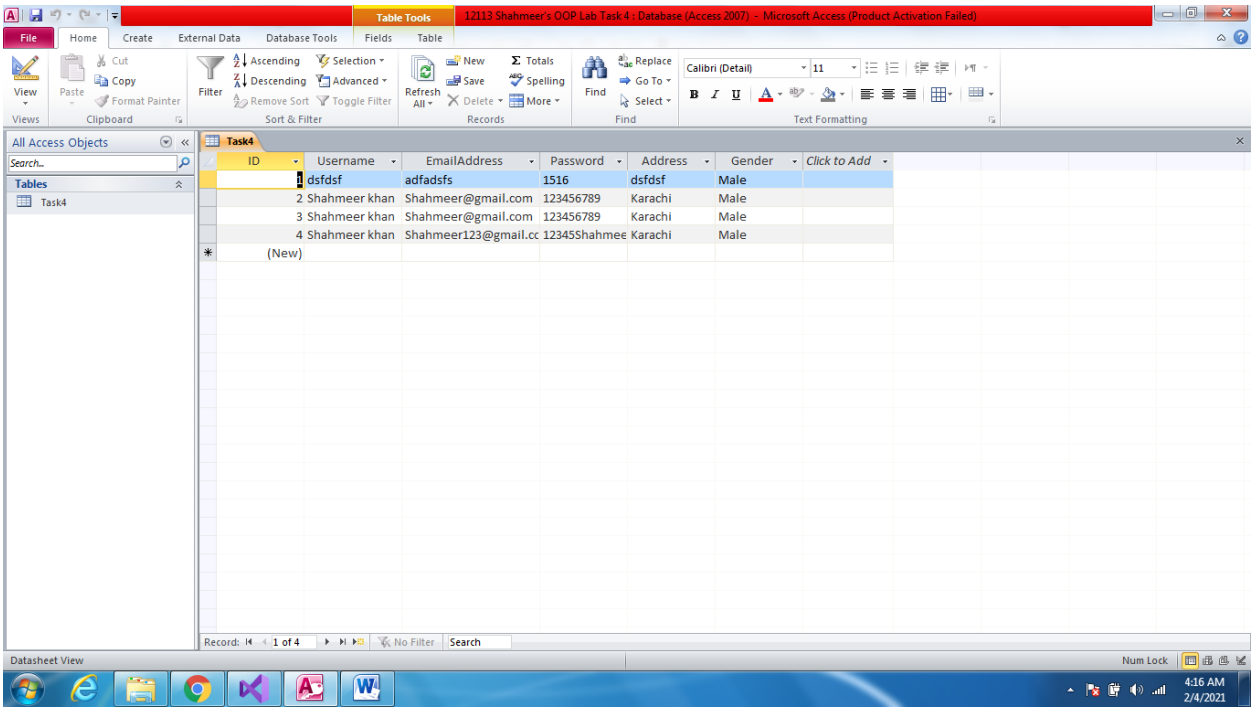
```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data.OleDb;

namespace _12113_Shahmeer_Lab_Task_4
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            string uname = textBox1.Text;
            string em = textBox2.Text;
            string Password = textBox3.Text;
            string address = textBox4.Text;
            string gender;
            if(radioButton1.Checked==true)
            {
                gender = radioButton1.Text;
            }
            else
```

```
            {
                gender = radioButton2.Text;
            }
            string connection = @"Provider=Microsoft.ACE.OLEDB.12.0;Data Source=D:\Kiet
2nd semeter\OOP LAB\OOP LAB 4\12113 Shahmeer's OOP Lab Task 4.accdb";
            OleDbConnection con = new OleDbConnection(connection);
            string querry = "Insert into
Task4([Username],[EmailAddress],[Password],[Address],[Gender]) values ('"+uname+"',
'"+em+"', '"+Password+"', '"+address+"', '"+gender+"')";
            OleDbCommand command = new OleDbCommand(querry,con);
            con.Open();
            int a = command.ExecuteNonQuery();
            if (a>0)
            {
                MessageBox.Show("Data Has been Inserted.");
            }
            else
            {
                MessageBox.Show("Data didn't got inserted into Database.");
            }
            con.Close();
        }

        private void label2_Click(object sender, EventArgs e)
        {

        }
    }
}
```

Output:




Submit
Sign Up Form
User Name:
Shahmeer khan
Email-Address:
Shahmeer123@gmail.com
Password:
12345Shahmeer
Address:
Karachi
Gender:
Male
Female
Data Has been Inserted.
OK
Submit
Cancel


12113 Shahmeer's OOP Lab Task 4 : Database (Access 2007) - Microsoft Access (Product Activation Failed)
Task4
ID
Username
EmailAddress
Password
Address
Gender
1 dsfdsf adfadsfs 1516 dsfdsf Male
2 Shahmeer khan Shahmeer@gmail.com 123456789 Karachi Male
3 Shahmeer khan Shahmeer@gmail.com 123456789 Karachi Male
4 Shahmeer khan Shahmeer123@gmail.cc 12345Shahmee Karachi Male

Lab Task 4(Question 3):

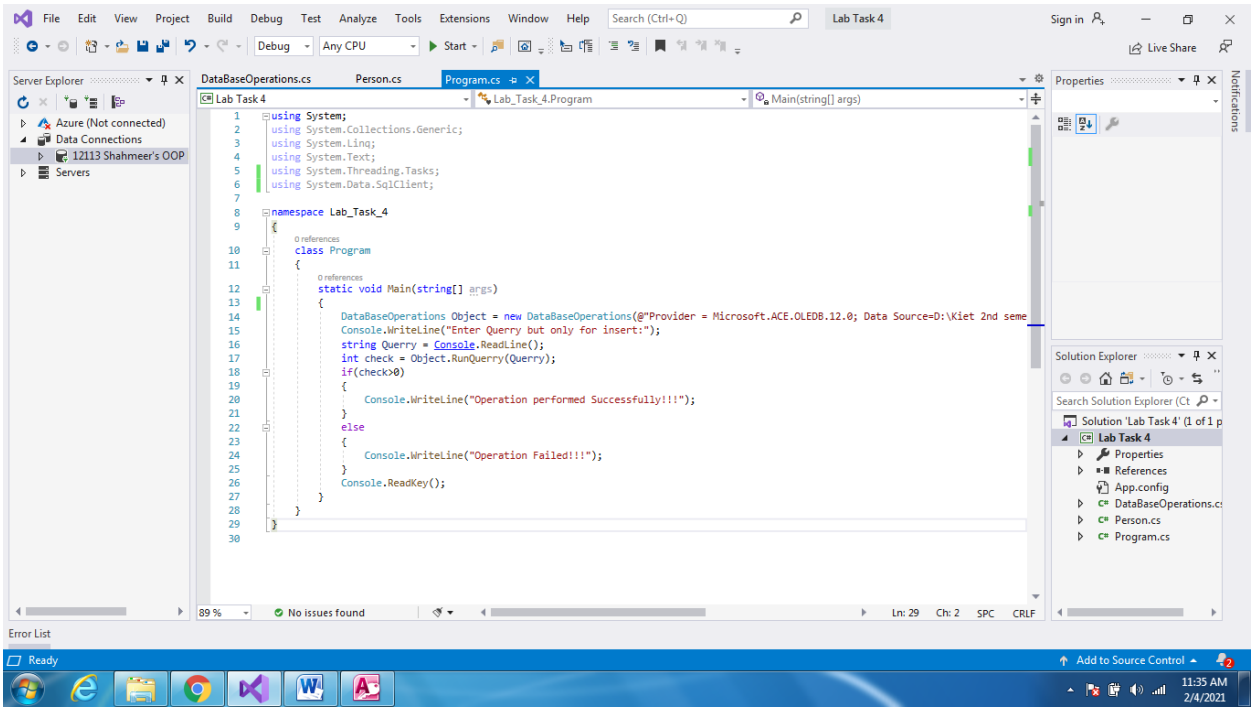
Inputted Code of DataBaseOperation.cs file:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Data;
using System.Data.OleDb;
using System.Data.SqlClient;

namespace Lab_Task_4
{
    class DataBaseOperations
    {
        OleDbConnection Connection;
        public DataBaseOperations(string connection)
        {
            Connection = new OleDbConnection(connection);
        }
        public DataTable GetData(string Querry)
        {
            OleDbCommand Command = new OleDbCommand(Querry,Connection);
            OleDbDataAdapter DataAdapter = new OleDbDataAdapter(Command);
            DataTable DT = new DataTable();
            Connection.Open();
            DataAdapter.Fill(DT);
            Connection.Close();
            return DT;
        }
        public void PrintData(string Query)
        {
            DataTable dt = GetData(Query);
            for (int i = 0; i < dt.Rows.Count; i++)
            {
                for (int j = 0; j < dt.Columns.Count; j++)
                {
                    Console.WriteLine(dt.Rows[i][j].ToString() + "\t");
                }
                Console.WriteLine();
            }
        }
        public int RunQuerry(string Query)
        {
            OleDbCommand Command = new OleDbCommand(Query,Connection);
```

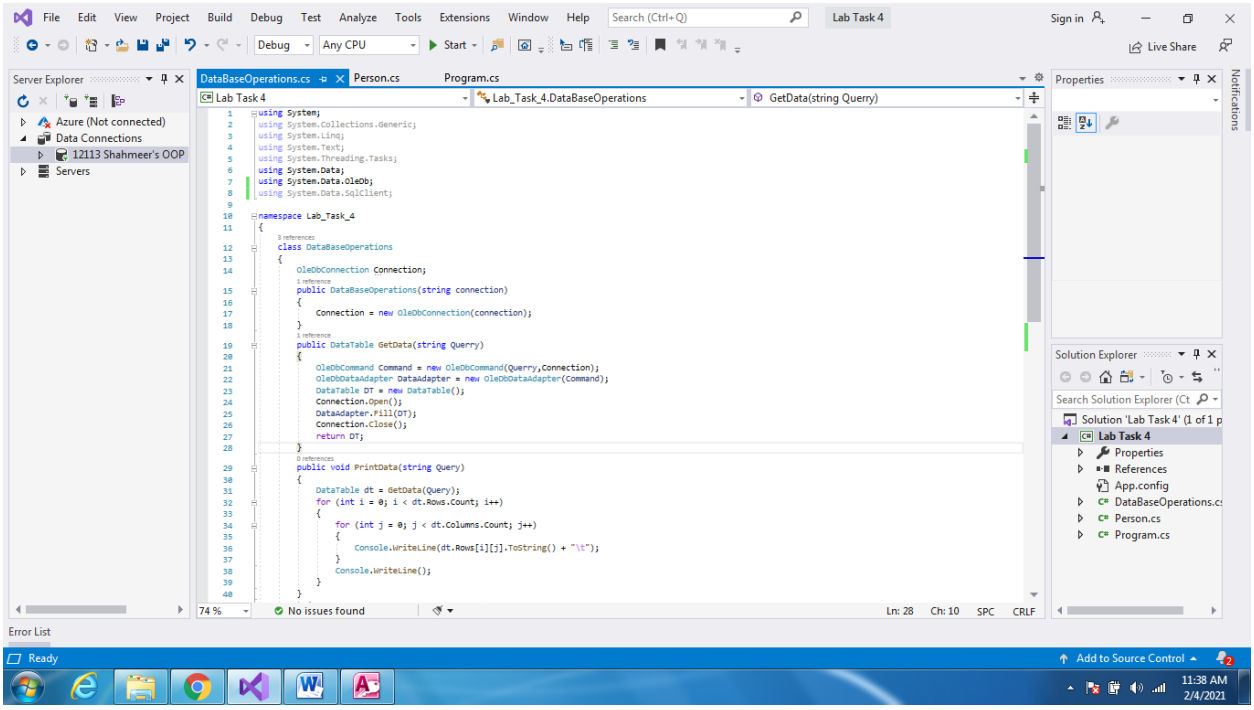
```
            Connection.Open();
            int a = Command.ExecuteNonQuery();
            Connection.Close();
            return a;
        }
    }
}
```

Inputted Code of Program.cs file:

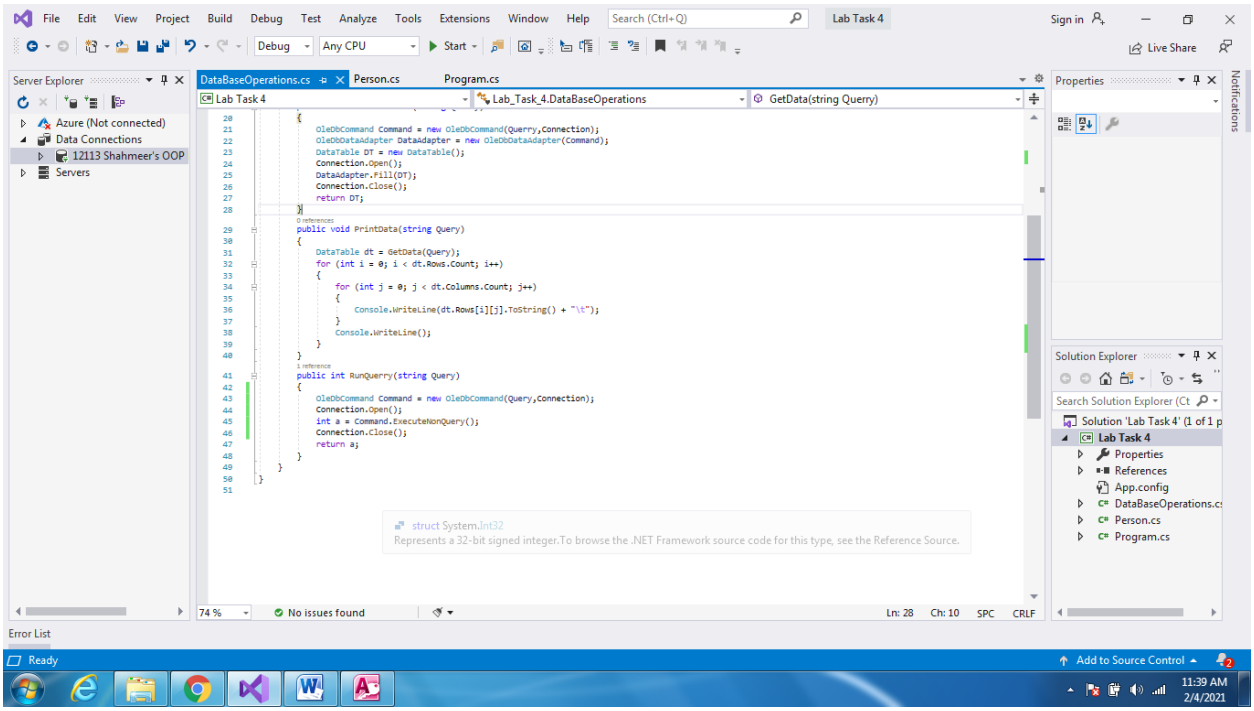
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Data.SqlClient;

namespace Lab_Task_4
{
    class Program
    {
        static void Main(string[] args)
        {
            DataBaseOperations Object = new DataBaseOperations(@"Provider =
Microsoft.ACE.OLEDB.12.0; Data Source=D:\Kiet 2nd semeter\OOP LAB\OOP LAB 4\12113
Shahmeer's OOP Lab Task 4.accdb");
            Console.WriteLine("Enter Querry but only for insert:");
            string Querry = Console.ReadLine();
            int check = Object.RunQuerry(Querry);
            if(check>0)
            {
                Console.WriteLine("Operation performed Successfully!!!");
            }
            else
            {
                Console.WriteLine("Operation Failed!!!");
            }
            Console.ReadKey();
        }
    }
}
```



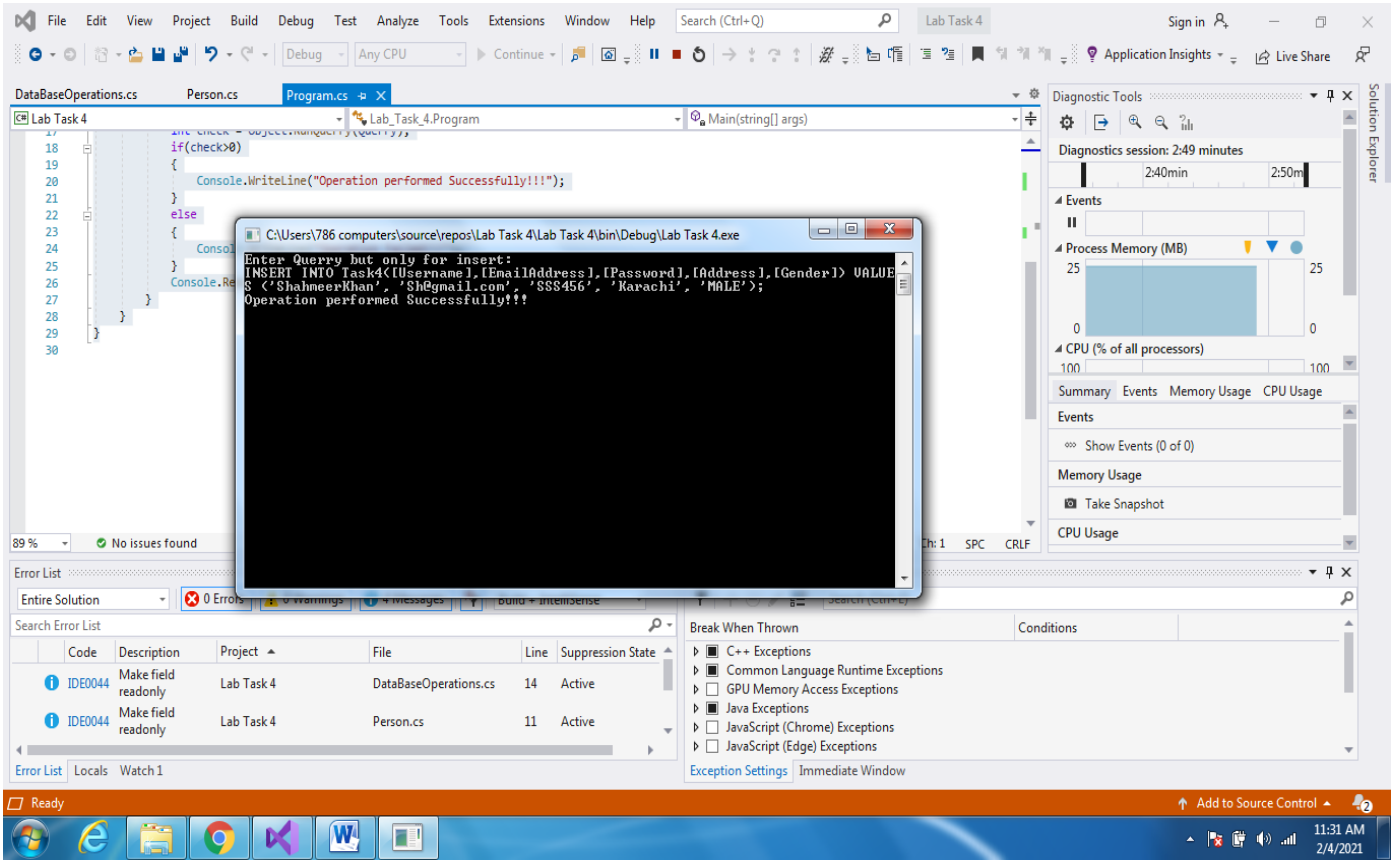
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Data.SqlClient;

namespace Lab_Task_4
{
    class Program
    {
        static void Main(string[] args)
        {
            DataBaseOperations Object = new DataBaseOperations(@"Provider = Microsoft.ACE.OLEDB.12.0; Data Source=D:\Kiet 2nd seme
            Console.WriteLine("Enter Querry but only for insert:");
            string Querry = Console.ReadLine();
            int check = Object.RunQuerry(Querry);
            if(check>0)
            {
                Console.WriteLine("Operation performed Successfully!!!");
            }
            else
            {
                Console.WriteLine("Operation Failed!!!");
            }
            Console.ReadKey();
        }
    }
}
```

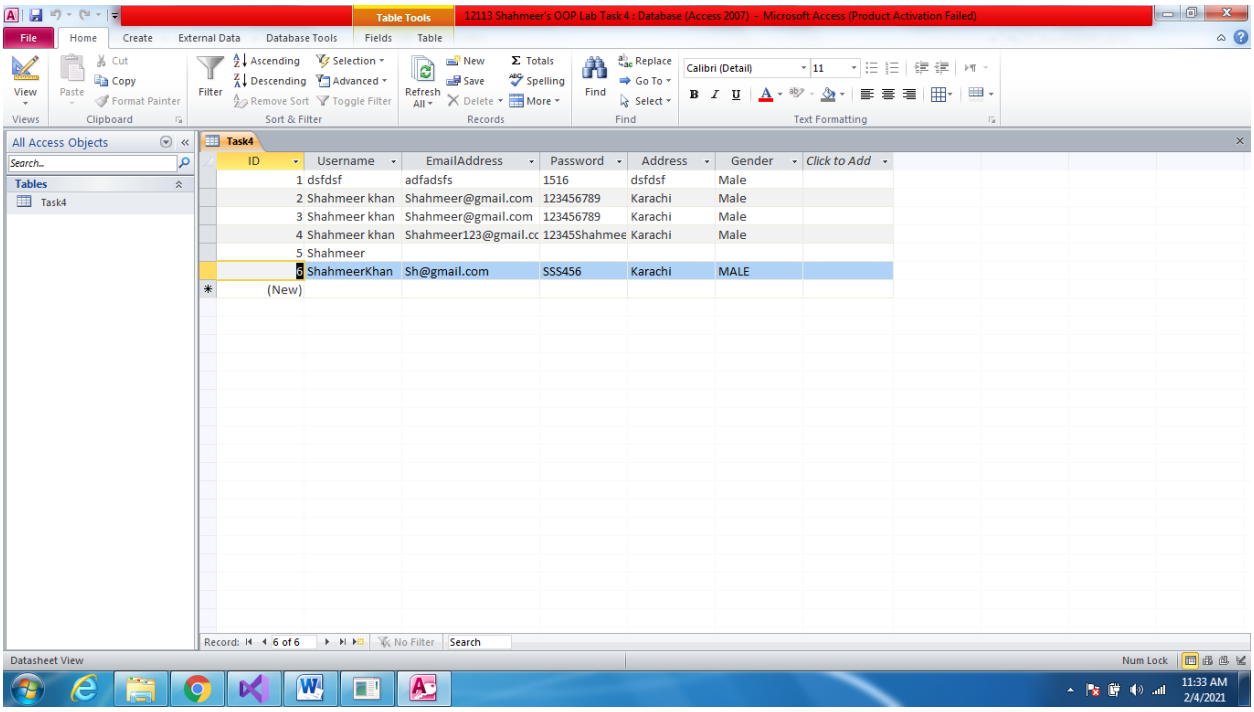


```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Data;
using System.Data.OleDb;
using System.Data.SqlClient;

namespace Lab_Task_4
{
    class DataBaseOperations
    {
        OleDbConnection Connection;
        public DataBaseOperations(string connection)
        {
            Connection = new OleDbConnection(connection);
        }
        public DataTable GetData(string Querry)
        {
            OleDbCommand Command = new OleDbCommand(Querry,Connection);
            OleDbDataAdapter DataAdapter = new OleDbDataAdapter(Command);
            DataTable DT = new DataTable();
            Connection.Open();
            DataAdapter.Fill(DT);
            Connection.Close();
            return DT;
        }
        public void PrintData(string Query)
        {
            DataTable dt = GetData(Query);
            for (int i = 0; i < dt.Rows.Count; i++)
            {
                for (int j = 0; j < dt.Columns.Count; j++)
                {
                    Console.WriteLine(dt.Rows[i][j].ToString() + "\t");
                }
                Console.WriteLine();
            }
        }
```



Output:

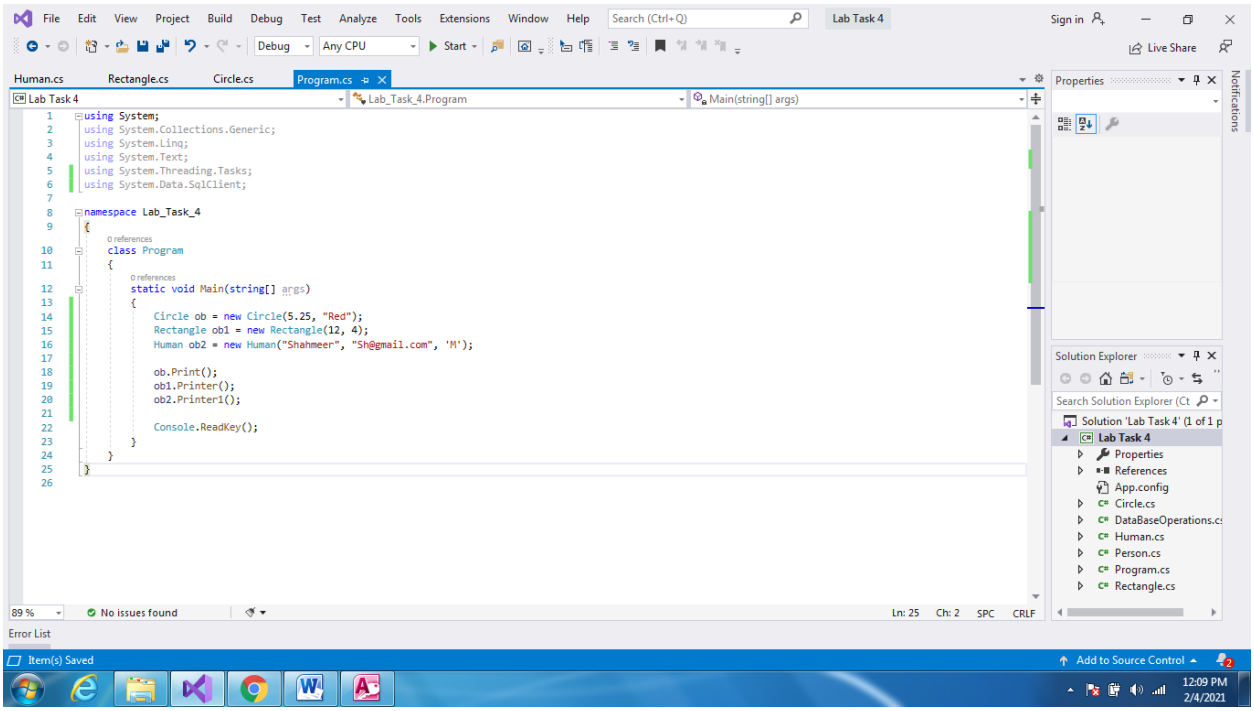

C:\Users\786 computers\source\repos\Lab Task 4\Lab Task 4\bin\Debug\Lab Task 4.exe
Enter Querry but only for insert:
INSERT INTO Task4([Username],[EmailAddress],[Password],[Address],[Gender]) VALUES ('ShahmeerKhan', 'Sh@gmail.com', 'SSS456', 'Karachi', 'MALE');
Operation performed Successfully!!!



Lab Task 4(Question 1):

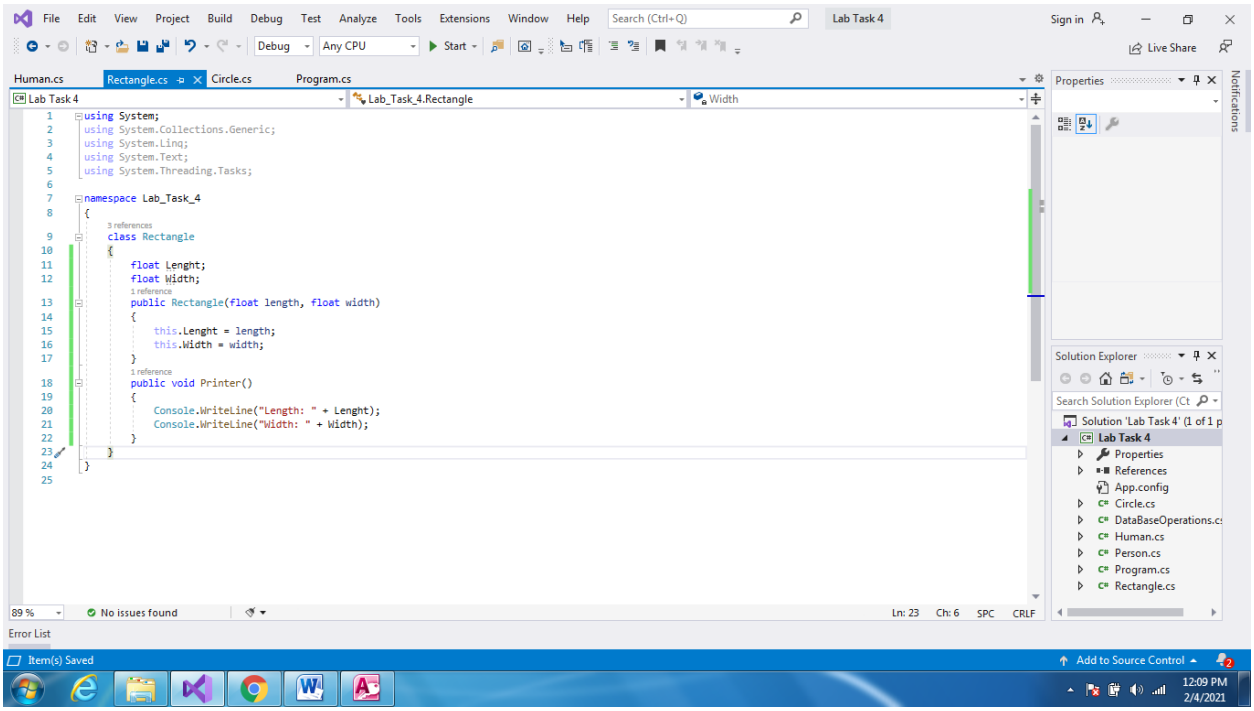
Inputted Code of Circle.cs file:

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

namespace Lab_Task_4
{
    class Circle
    {
        double Radius;
        string color;
        public Circle(double rad, string Col)
        {
            this.Radius = rad;
            this.color = Col;
        }
        public void Print()
        {
            Console.WriteLine("Radius: " + Radius);
            Console.WriteLine("Color: " + color);
        }
    }
}
```



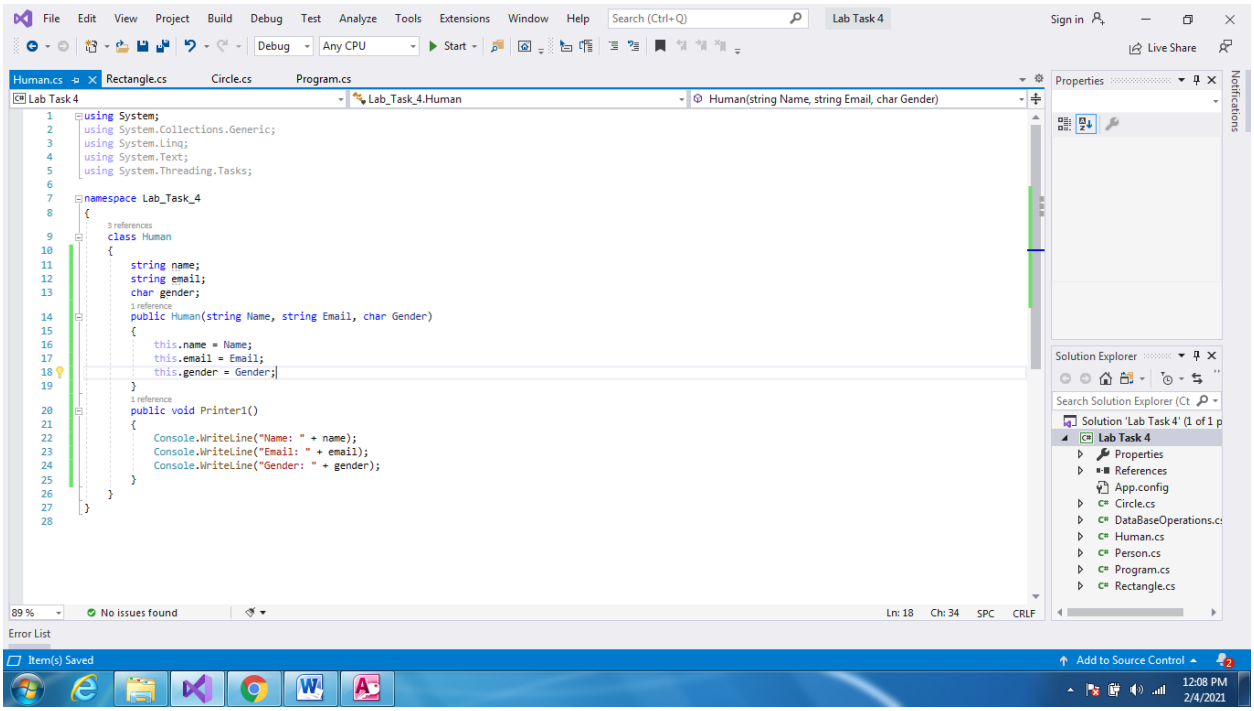
Inputted Code of Rectangle.cs file:

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

namespace Lab_Task_4
{
    class Rectangle
    {
        float Lenght;
        float Width;
        public Rectangle(float length, float width)
        {
            this.Lenght = length;
            this.Width = width;
        }
        public void Printer()
        {
            Console.WriteLine("Length: " + Lenght);
            Console.WriteLine("Width: " + Width);
        }
    }
}
```



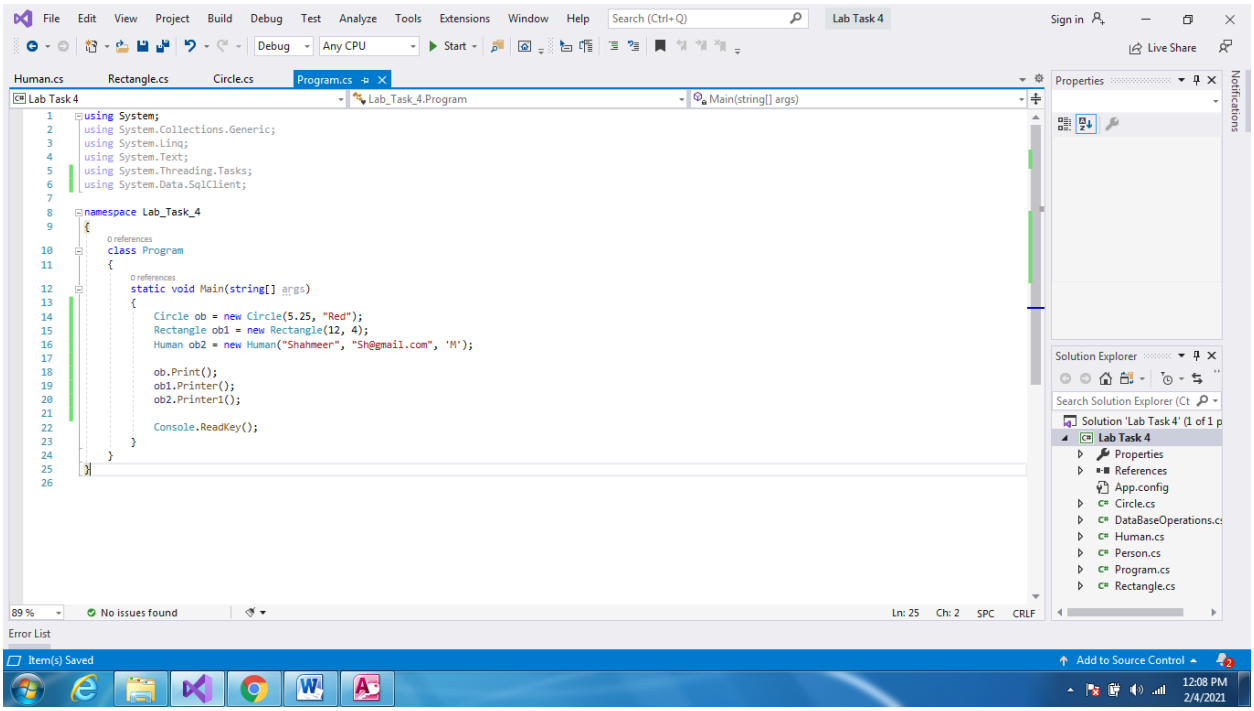
Inputted Code of Human.cs file:

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

namespace Lab_Task_4
{
    class Human
    {
        string name;
        string email;
        char gender;
        public Human(string Name, string Email, char Gender)
        {
            this.name = Name;
            this.email = Email;
            this.gender = Gender;
        }
        public void Printer1()
        {
            Console.WriteLine("Name: " + name);
            Console.WriteLine("Email: " + email);
            Console.WriteLine("Gender: " + gender);
        }
    }
}
```

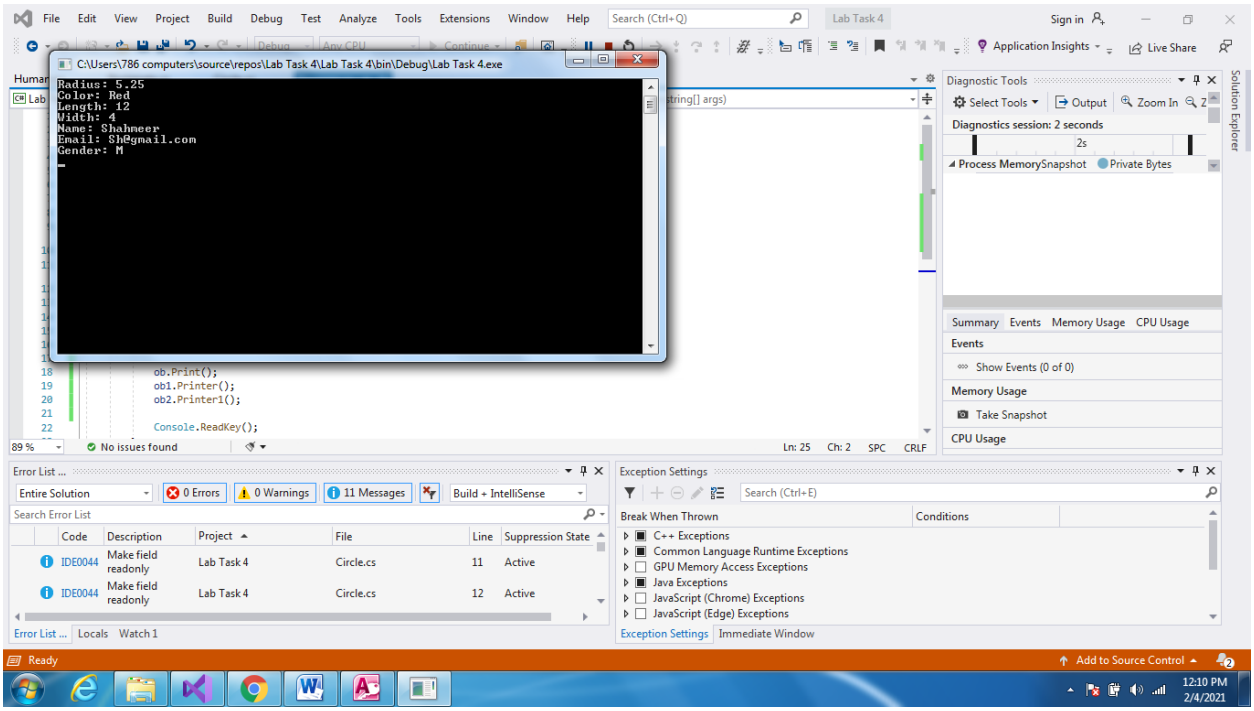


Inputted Code of Program.cs file:

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

namespace Lab_Task_4
{
    class Program
    {
        static void Main(string[] args)
        {
            Circle ob = new Circle(5.25, "Red");
            Rectangle ob1 = new Rectangle(12, 4);
            Human ob2 = new Human("Shahmeer", "Sh@gmail.com", 'M');

            ob.Print();
            ob1.Printer();
            ob2.Printer1();

            Console.ReadKey();
        }
    }
}
```



Output:


C:\Users\786 computers\source\repos\Lab Task 4\Lab Task 4\bin\Debug\Lab Task 4.exe
Radius: 5.25
Color: Red
Length: 12
Width: 4
Name: Shahmeer
Email: Sh@gmail.com
Gender: M