OOP Lab task 3/4

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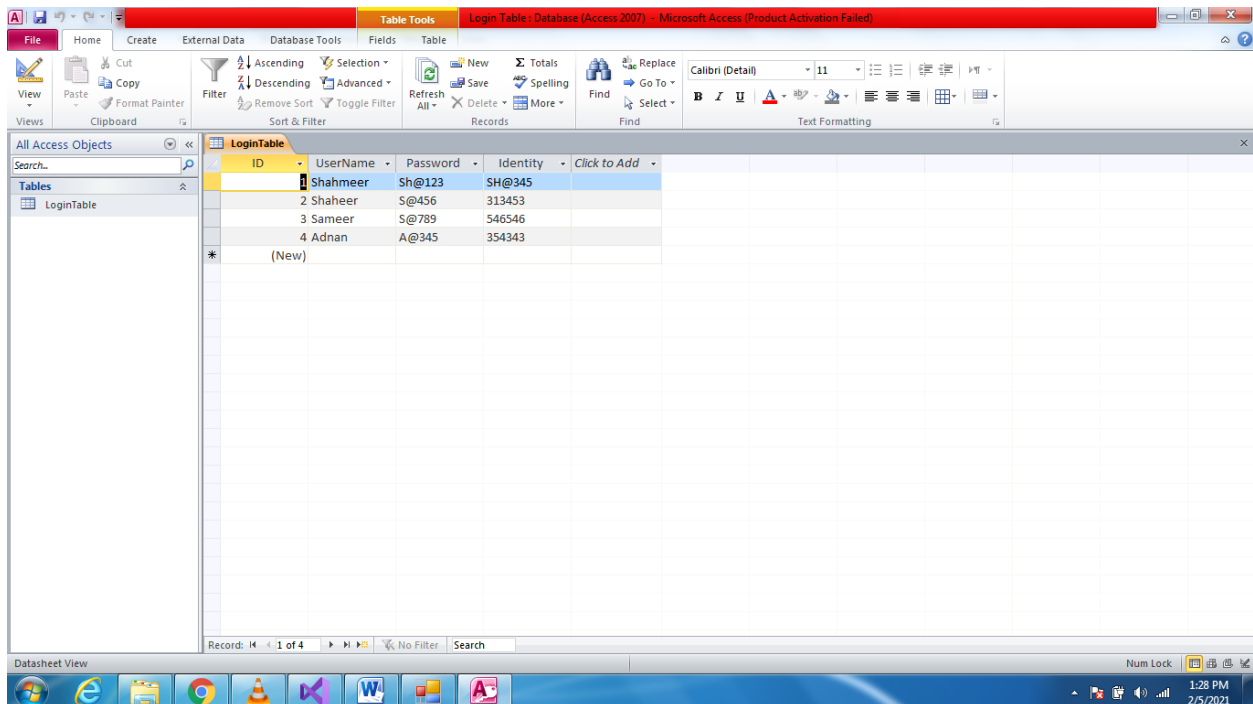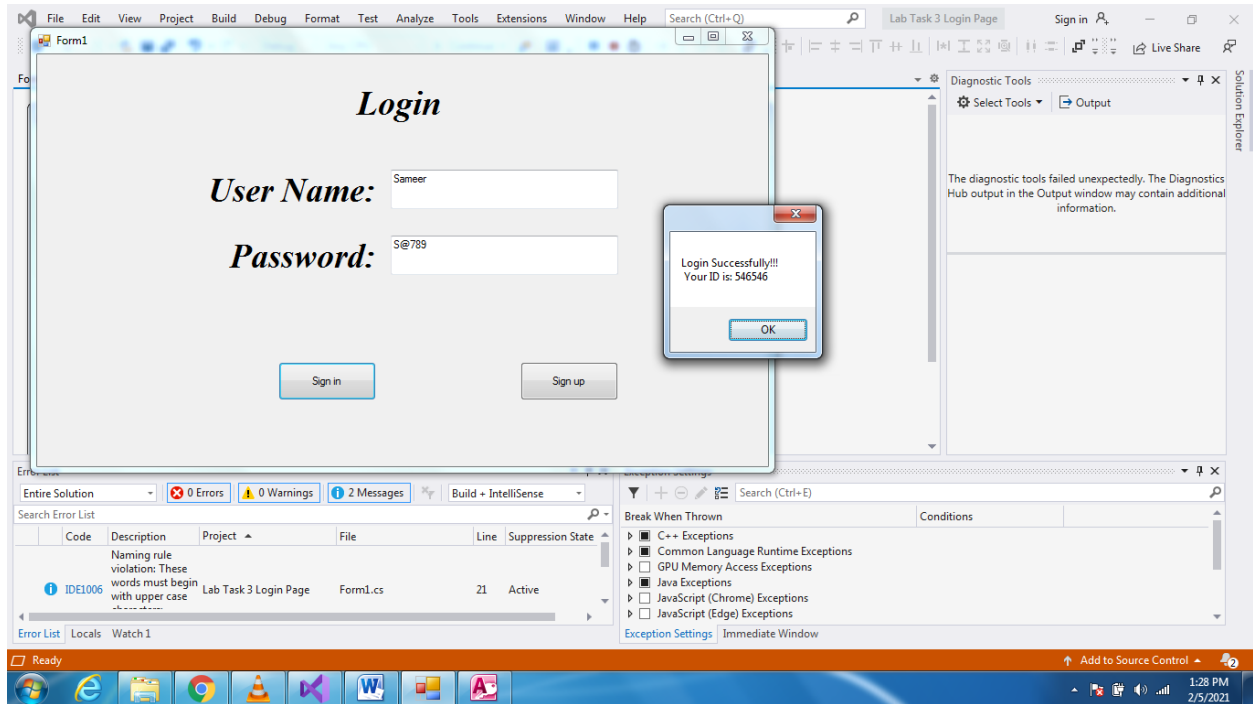## *Lab Task 3[Win Form one(Login one)];*

Inputted Code:

```csharp
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 Lab_Task_3_Login_Page
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            bool check = true;
            string Connection = @"Provider=Microsoft.ACE.OLEDB.12.0;Data
Source=C:\Users\786 computers\Documents\Login Table.accdb";
            OleDbConnection CON = new OleDbConnection(Connection);
            string Querry = "Select * from LoginTable";
            OleDbCommand Command = new OleDbCommand(Querry, CON);
            CON.Open();
            OleDbDataReader Reader = Command.ExecuteReader();
            while(Reader.Read())
            {
```

```csharp
            if (this.Username.Text == Reader[1].ToString() && this.Password.Text ==
Reader[2].ToString())
            {
                MessageBox.Show("Login Successfully!!! \n Your ID is: " + Reader[3]);
                check=false;
                CON.Close();
                break;
            }
            if(check)
            {
                MessageBox.Show("Username and Password are incorrect.");
            }
        }
    }
}
```

Inputted Code:

Program.cs(one):

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

namespace Lab_Task_4_Question_2
{
    class Program
    {
        static void Main(string[] args)
        {
            Circle c1 = new Circle();
            c1.radius = 2.0;
            c1.color = "green";

            Circle c2 = new Circle();
            c2.radius = 10.0;
            c2.color = "yellow";

            Console.WriteLine("Radius for object c1 is: " + c1.radius);
            Console.WriteLine("Color for object c1 is: " + c1.color);
            Console.WriteLine("Radius for object c2 is: " + c2.color);
            Console.WriteLine("Color for object c2 is: " + c2.color);

            Console.WriteLine();
            Console.WriteLine("Interchanging the Object References in opposite Reference
Holders:");
            Console.WriteLine();

            Circle temp = c1;
            c1 = c2;
            c2 = temp;

            Console.WriteLine("Radius for object c1 is: " + c1.radius);
            Console.WriteLine("Color for object c1 is: " + c1.color);
            Console.WriteLine("Radius for object c2 is: " + c2.color);
            Console.WriteLine("Color for object c2 is: " + c2.color);


            Rectangle r1 = new Rectangle();
            r1.Length = 20;
            r1.Width = 28;

            Rectangle r2 = new Rectangle();
            r2.Length = 14;
            r2.Width = 65;

            Console.WriteLine("Length for object r1 is: " + r1.Length);
```

```csharp
            Console.WriteLine("Width for object c1 is: " + r1.Width);
            Console.WriteLine("Length for object r2 is: " + r2.Length);
            Console.WriteLine("Width for object r2 is: " + r2.Width);

            Console.WriteLine();
            Console.WriteLine("Interchanging the Object References in opposite Reference
Holders:");
            Console.WriteLine();

            Rectangle temps = r1;
            r1 = r2;
            r2 = temps;

            Console.WriteLine("Length for object c1 is: " + r1.Length);
            Console.WriteLine("Width for object c1 is: " + r1.Width);
            Console.WriteLine("Length for object c2 is: " + r2.Length);
            Console.WriteLine("Width for object c2 is: " + r2.Width);

            Human h1 = new Human();
            h1.name = "Shahmeer";
            h1.email = "Shahmeer@affiniti.com";
            h1.gender = 'M';

            Human h2 = new Human();
            h2.name = "Shahmeer khan";
            h2.email = "Sh@gmail.com";
            h2.gender = 'M';

            Console.WriteLine("Name of Human h1 is : " + h1.name);
            Console.WriteLine("Mail of Human h1 is : " + h1.email);
            Console.WriteLine("Gender of Human h1 is : " + h1.gender);
            Console.WriteLine("Name of Human h2 is : " + h2.name);
            Console.WriteLine("Male of Human h2 is : " + h2.email);
            Console.WriteLine("Gender of Human h2 is : " + h2.gender);


            Console.WriteLine();
            Console.WriteLine("Interchanging the Object References in opposite Reference
Holders:");
            Console.WriteLine();

            Human temps1 = h1;
            h1 = h2;
            h2 = temps1;

            Console.WriteLine("Name of Human h1 is : " + h1.name);
            Console.WriteLine("Mail of Human h1 is : " + h1.email);
            Console.WriteLine("Gender of Human h1 is : " + h1.gender);
            Console.WriteLine("Name of Human h2 is : " + h2.name);
            Console.WriteLine("Male of Human h2 is : " + h2.email);
            Console.WriteLine("Gender of Human h2 is : " + h2.gender);


            Console.ReadKey();
        }
    }
}
```
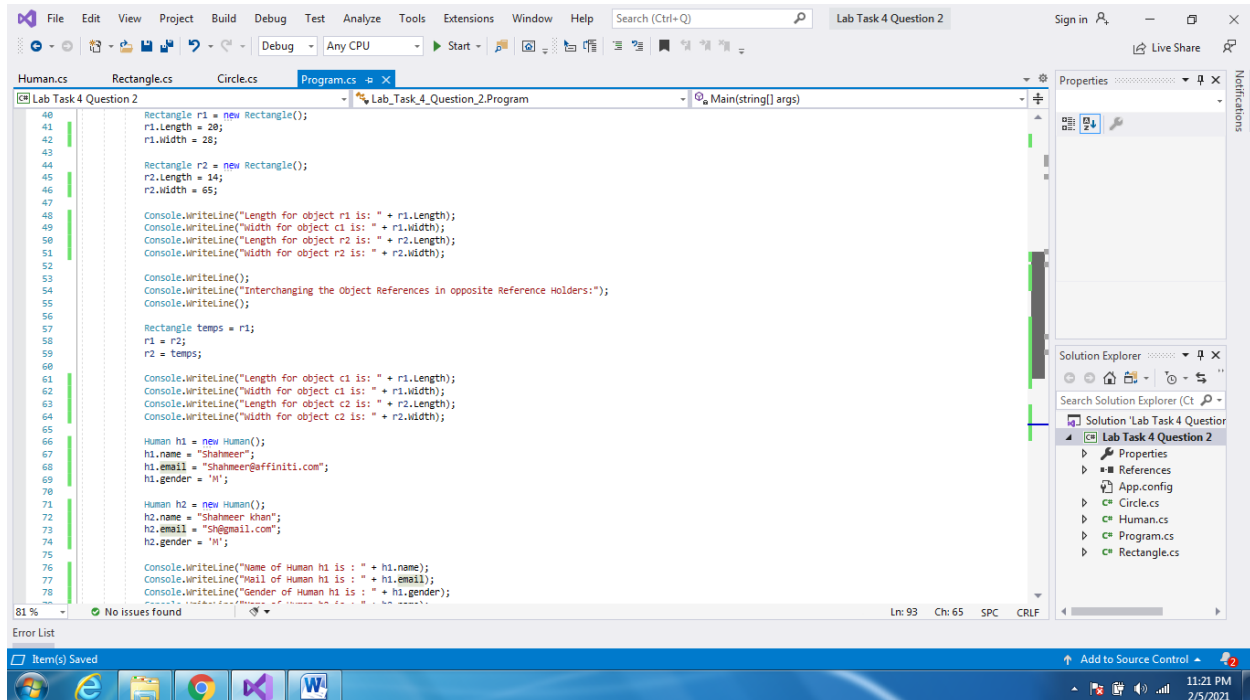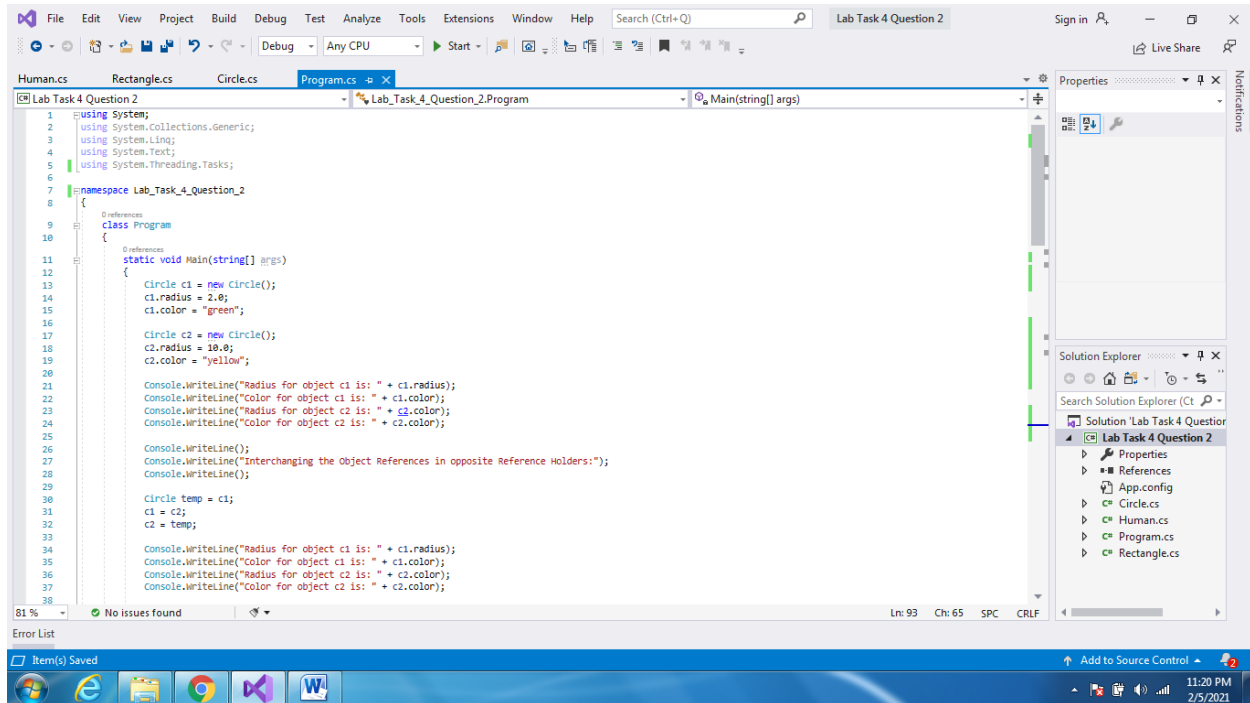
```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Lab_Task_4_Question_2
{
    class Program
    {
        static void Main(string[] args)
        {
            Circle c1 = new Circle();
            c1.radius = 2.0;
            c1.color = "green";

            Circle c2 = new Circle();
            c2.radius = 10.0;
            c2.color = "yellow";

            Console.WriteLine("Radius for object c1 is: " + c1.radius);
            Console.WriteLine("Color for object c1 is: " + c1.color);
            Console.WriteLine("Radius for object c2 is: " + c2.color);
            Console.WriteLine("Color for object c2 is: " + c2.color);

            Console.WriteLine();
            Console.WriteLine("Interchanging the Object References in opposite Reference Holders:");
            Console.WriteLine();

            Circle temp = c1;
            c1 = c2;
            c2 = temp;

            Console.WriteLine("Radius for object c1 is: " + c1.radius);
            Console.WriteLine("Color for object c1 is: " + c1.color);
            Console.WriteLine("Radius for object c2 is: " + c2.color);
            Console.WriteLine("Color for object c2 is: " + c2.color);
```

```csharp
            Rectangle r1 = new Rectangle();
            r1.Length = 20;
            r1.Width = 28;

            Rectangle r2 = new Rectangle();
            r2.Length = 14;
            r2.Width = 65;

            Console.WriteLine("Length for object r1 is: " + r1.Length);
            Console.WriteLine("Width for object c1 is: " + r1.Width);
            Console.WriteLine("Length for object r2 is: " + r2.Length);
            Console.WriteLine("Width for object r2 is: " + r2.Width);

            Console.WriteLine();
            Console.WriteLine("Interchanging the Object References in opposite Reference Holders:");
            Console.WriteLine();

            Rectangle temps = r1;
            r1 = r2;
            r2 = temps;

            Console.WriteLine("Length for object c1 is: " + r1.Length);
            Console.WriteLine("Width for object c1 is: " + r1.Width);
            Console.WriteLine("Length for object c2 is: " + r2.Length);
            Console.WriteLine("Width for object c2 is: " + r2.Width);

            Human h1 = new Human();
            h1.name = "Shahmeer";
            h1.email = "Shahmeer@affiniti.com";
            h1.gender = 'M';

            Human h2 = new Human();
            h2.name = "Shahmeer khan";
            h2.email = "Sh@gmail.com";
            h2.gender = 'M';

            Console.WriteLine("Name of Human h1 is : " + h1.name);
            Console.WriteLine("Mail of Human h1 is : " + h1.email);
            Console.WriteLine("Gender of Human h1 is : " + h1.gender);
```
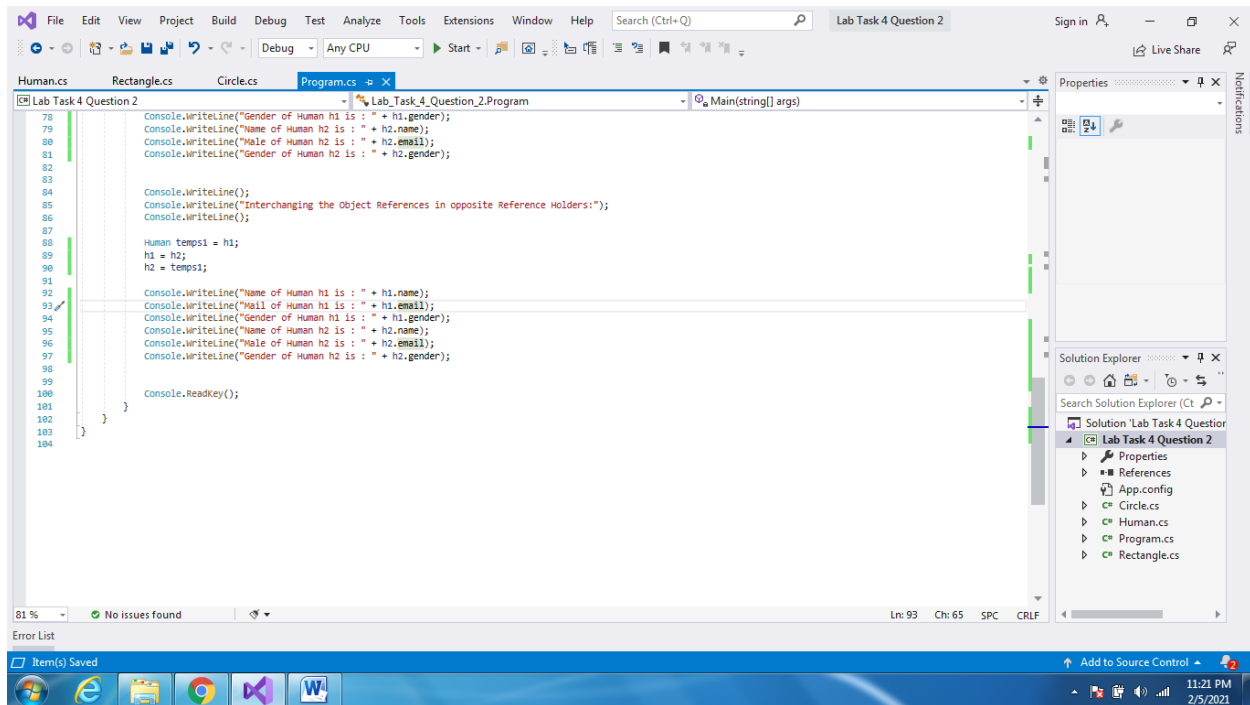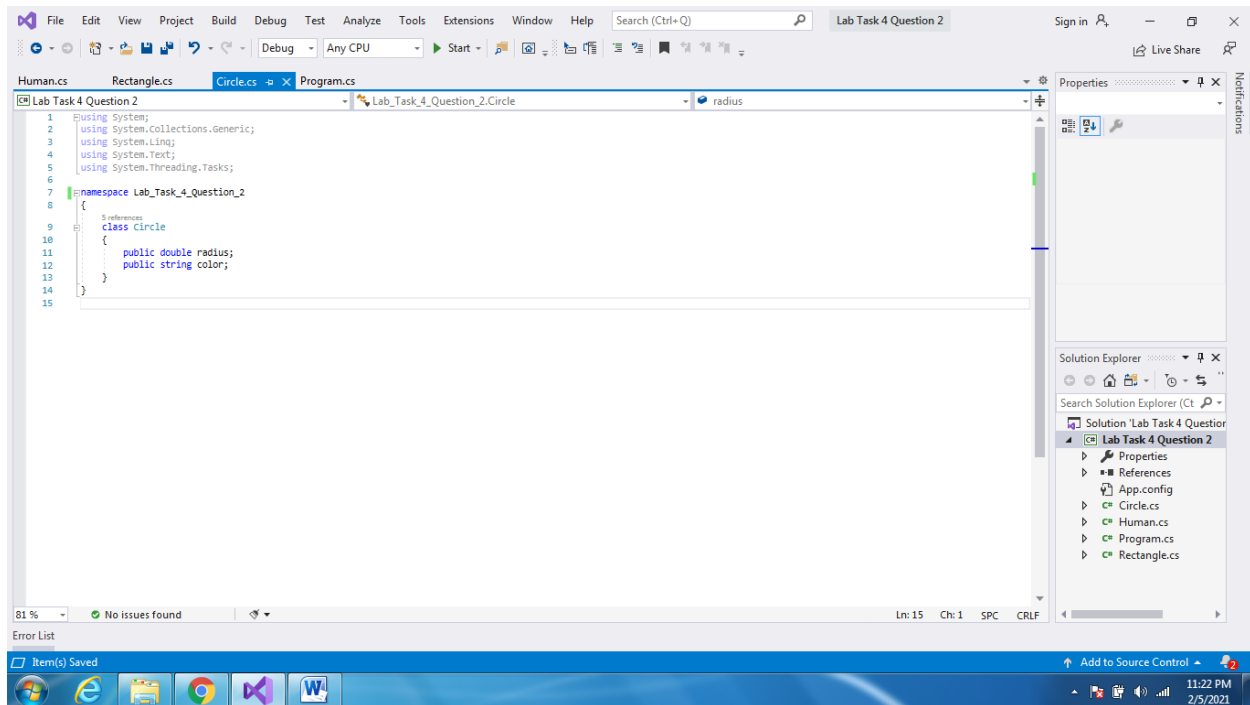
Circle.cs(one):

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

namespace Lab_Task_4_Question_2
{
    class Circle
    {
        public double radius;
        public string color;
    }
}
```
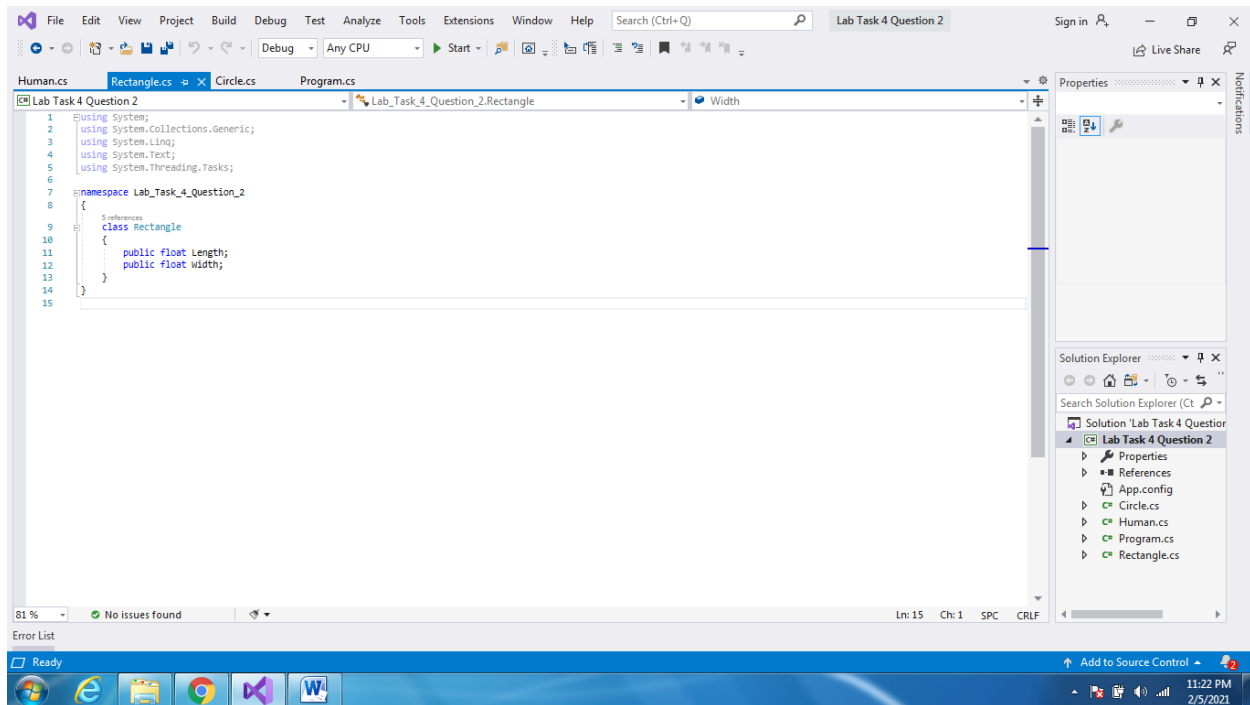
Rectangle.cs(one):

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

namespace Lab_Task_4_Question_2
{
    class Rectangle
    {
        public float Length;
        public float Width;
    }
}
```
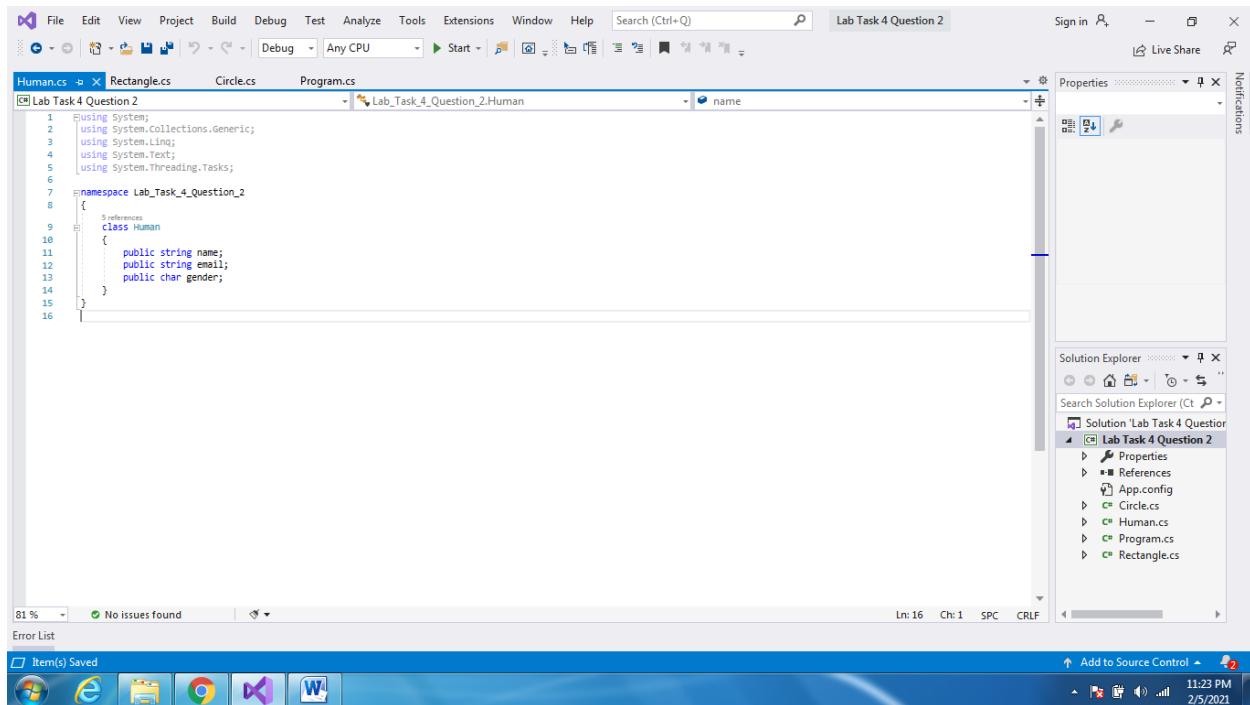
Human.cs(one):

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

namespace Lab_Task_4_Question_2
{
    class Human
    {
        public string name;
        public string email;
        public char gender;
    }
}
```
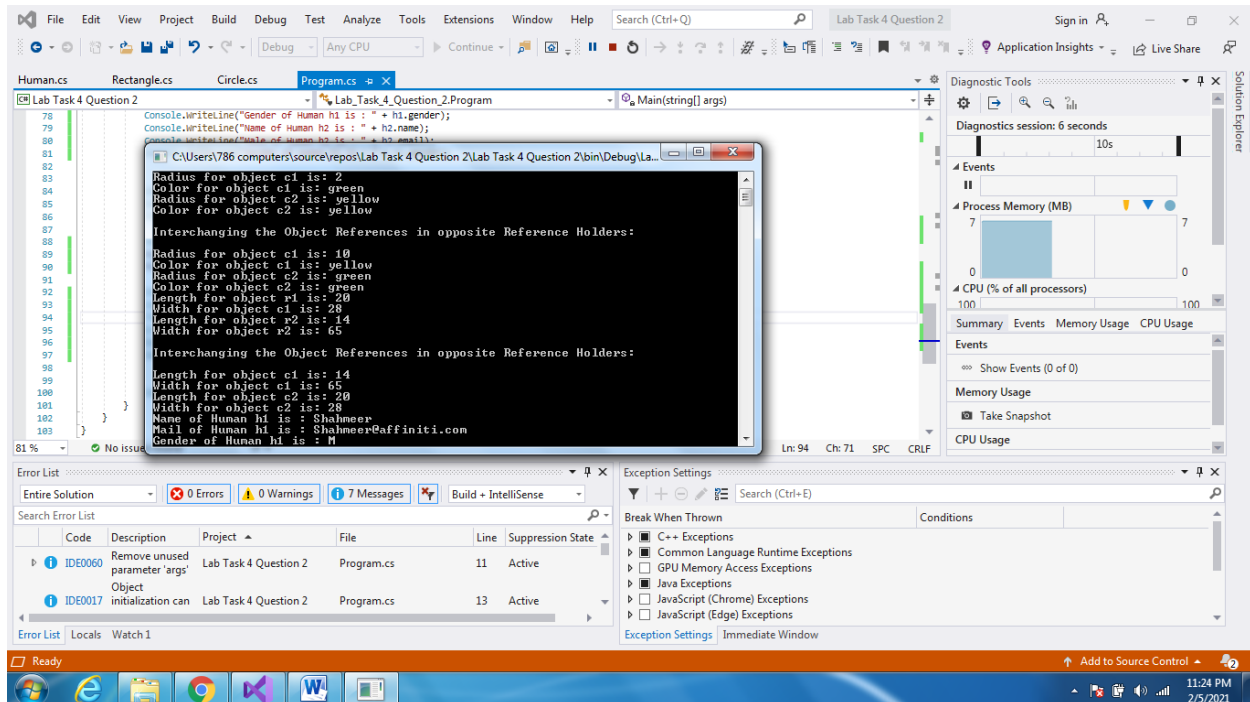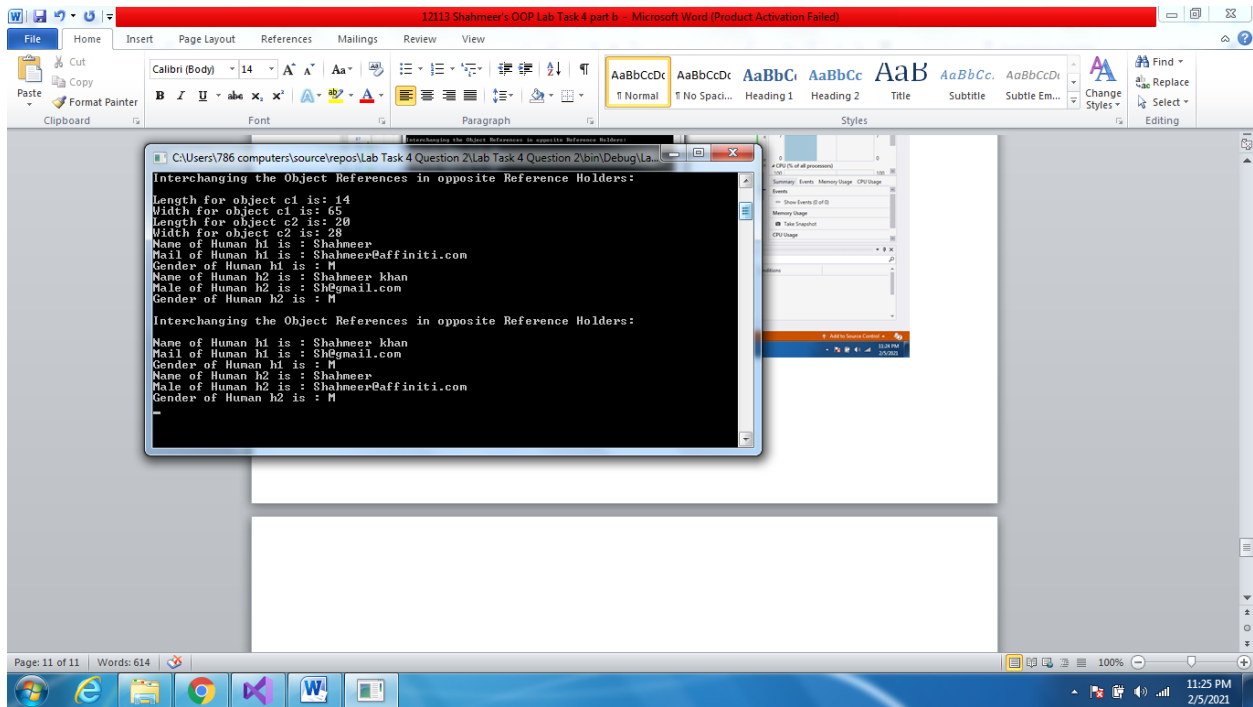
```csharp
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Lab_Task_4_Question_2
{
    class Human
    {
        public string name;
        public string email;
        public char gender;
    }
}
```
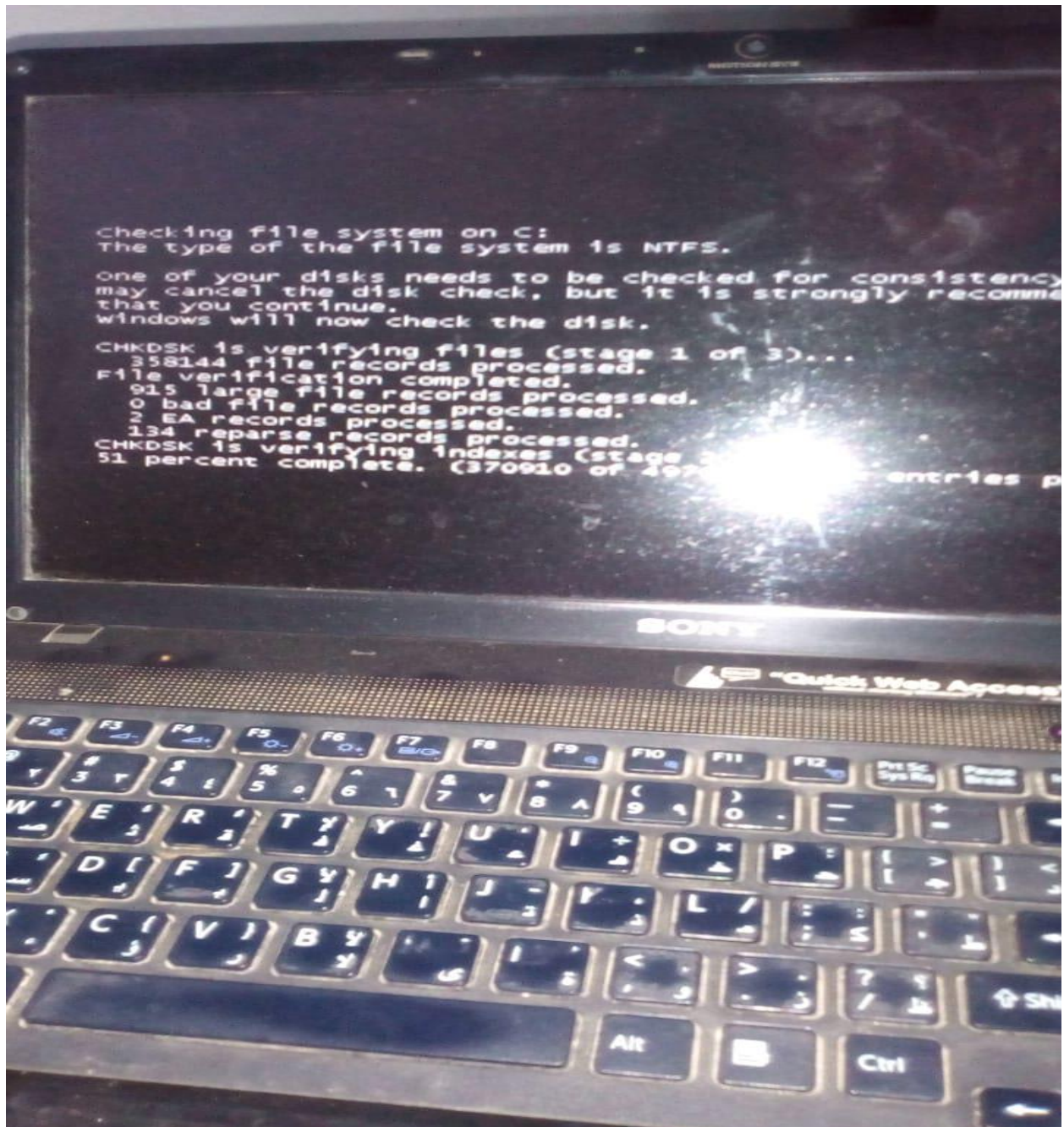
Output:

```
C:\Users\786 computers\source\repos\Lab Task 4 Question 2\Lab Task 4 Question 2\bin\Debug\La...
Interchanging the Object References in opposite Reference Holders:

Length for object c1 is: 14
Width for object c1 is: 65
Length for object c2 is: 20
Width for object c2 is: 28
Name of Human h1 is : Shahmeer
Mail of Human h1 is : Shahmeer@affiniti.com
Gender of Human h1 is : M
Name of Human h2 is : Shahmeer khan
Male of Human h2 is : Sh@gmail.com
Gender of Human h2 is : M

Interchanging the Object References in opposite Reference Holders:

Name of Human h1 is : Shahmeer khan
Mail of Human h1 is : Sh@gmail.com
Gender of Human h1 is : M
Name of Human h2 is : Shahmeer
Male of Human h2 is : Shahmeer@affiniti.com
Gender of Human h2 is : M
```

Mam also one thing reason of submitting this second(Part b) file on next page

Kindly read it.

Mam, this second file part b which I am submitting late, the reason behind it is my laptop's Os I don't know what happened but it took hours to resolve but thank god it got resolved and my data is save actually this happened: V

Miss Kindly please negative marking nhn kijiyega please.