OOP LAB TASK # 06

Name: Shahmeer khan.

Student ID: 12113.

Class ID: 106278.

TASK:

Question no. 1:

Inputted Code:

Student.cs(Class):

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace 12113 Shahmeer s OOP Lab Task 6
    class Student
        private string Name = "Furqan";
        private int Roll Number = 85489;
        private double Phone_Number = +92_36459789;
        private string Address = "8/5644, Block # 05, Gulistan-e-Johan, Karachi,
Pakistan.";
        public string Furgan()
            return "Name: " + Name + "\n" + "Roll Number: " + Roll Number + "\n"
                + "Phone_Number: +" + Phone_Number + "\n" + "Address: " + Address + "\n";
        private string name = "Umer";
        private int roll_Number = 54678;
        private double phone_Number = +92_37854698;
```

```
private string address = "3/4557, Block # 10, Gulshan-e-Iqbal, Karachi,
Pakistan.";
                 public string Umer()
                 {
                         return "Name: " + name + "\n" + "Roll_Number: " + roll_Number + "\n"
                                  + "Phone Number: +" + phone Number + "\n" + "Address: " + address + "\n";
                 }
        }
}
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                   System.Collections.Generic:
            using System.Threading.Tasks;
            □namespace _12113_Shahmeer_s_OOP_Lab_Task_6
                     private string Name = "Furqan";
private int Roll_Number = 85489;
                     private double Phone_Number = +92_36459789;
private string Address = "8/5644, Block # 05, Gulistan-e-Johar, Karachi, Pakistan.";
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                      public string Furgan()
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                        return "Name: " + Name + "\n" + "Roll_Number: " + Roll_Number + "\n"
+ "Phone_Number: +" + Phone_Number + "\n" + "Address: " + Address + "\n";
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                     private string name = "Umer";
private int roll.Number = 54678;
private double phone.Number = +92_37854698;
private obtule phone.Number = +92_37854698;
private string address = "3/4557, Block # 10, Gulshan-e-Iqbal, Karachi, Pakistan.";
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                     public string Umer()
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C Program.cs
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                        return "Name: " + name + "\n" + "Roll_Number: " + roll_Number + "\n"
+ "Phone_Number: +" + phone_Number + "\n" + "Address: " + address + "\n";

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```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace _12113_Shahmeer_s_OOP_Lab_Task_6
    class Program
    {
        static void Main(string[] args)
            Console.WriteLine("Lab Task 6:");
            Console.WriteLine("Question no. 1:");
            Console.WriteLine("Students Data:\n");
            Student Object = new Student();
            Console.WriteLine(Object.Furgan());
            Console.WriteLine("\n");
            Console.WriteLine(Object.Umer());
            Console.ReadKey();
        }
```

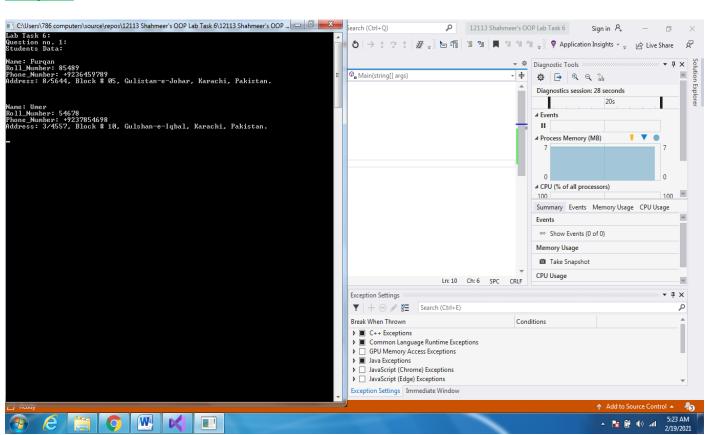
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}
}
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              ⊟using System;
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              using System.Linq;
using System.Text;
using System.Threading.Tasks;
             □ namespace _12113_Shahmeer_s_OOP_Lab_Task_6
                    class Program
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static void Main(string[] args)
                            console.WriteLine("Lab Task 6:");
Console.WriteLine("Question no. 1:");
Console.WriteLine("Students Data:\n");
Student Object = new Student();
Console.WriteLine("Object.Furqan());
Console.WriteLine("\n");
Console.WriteLine("\n");
Console.WriteLine("\n");
Console.ReadKey();
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Question no.2:

Inputted Code:

Student.cs(Class):

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace _12113_Shahmeer_s_OOP_Lab_Task_6
    class Student
    {
        public string Name;
        public int Merit;
        public double Phone_Number;
        public string Email_Address;
        public string gender;
        public Student(string Student_Name, int Student_Merit, double Contact, string
Email, string Gender)
            Name = Student_Name;
            Merit = Student_Merit;
            Phone_Number = Contact;
            Email_Address = Email;
            gender = Gender;
    }
}
```

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             using System.Lina:
           □namespace 12113 Shahmeer s OOP Lab Task 6
                 class Student
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                     public string Name;
                     public int Merit;
public double Phone_Number;
public string Email_Address;
public string gender;
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                     public Student(string Student_Name, int Student_Merit, double Contact, string Email, string Gender)
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                         Name = Student_Name;

Merit = Student_Merit;

Phone_Number = Contact;

Email_Address = Email;
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                          gender = Gender;
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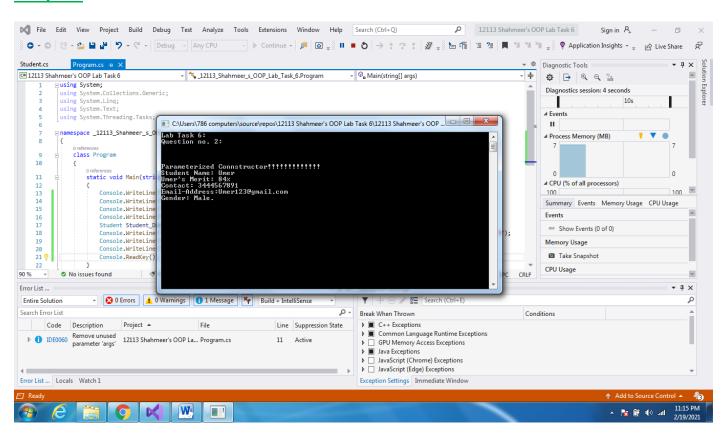
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace _12113_Shahmeer_s_OOP_Lab_Task_6
    class Program
    {
        static void Main(string[] args)
            Console.WriteLine("Lab Task 6:");
            Console.WriteLine("Question no. 2:");
            Console.WriteLine("\n\n");
            Console.WriteLine("Parameterized Connstructor!!!!!!!!");
            Student Student_Data = new Student("Umer", 84, 03444567891,
"Umer123@gmail.com", "Male.");
            Console.WriteLine("Student Name: " + Student_Data.Name + "\n" +
Student_Data.Name + "'s Merit: " + Student_Data.Merit + "%");
            Console.WriteLine("Contact: " + Student_Data.Phone_Number + "\nEmail-
Address:" + Student_Data.Email_Address);
            Console.WriteLine("Gender: " + Student_Data.gender);
            Console.ReadKey();
        }
    }
}
```

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               using System.Ling:
              using System.Threading.Tasks;
             namespace 12113 Shahmeer's OOP Lab Task 6
                   class Program
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                       static void Main(string[] args)
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                           Console.WriteLine("Lab Task 6:");
                           Console WriteLine("Question no. 2:");
Console WriteLine("\(\nu\)\n");
Console WriteLine("Parameterized Connstructor!!!!!!!!");
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                           Student Student_Data = new Student("Umer", 84, 03444567891, "Umer123@gmail.com", "Male.");
Console.WriteLine("Student Name: " + Student_Data.Name + "\n" + Student_Data.Name + "'s Merit: " + Student_Data.Merit + "%");
Console.WriteLine("Contact: " + Student_Data.Ponet_Data.Mumber + "\nEmail-Address:" + Student_Data.Email_Address);
Console.WriteLine("Gender: " + Student_Data.gender);
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             }

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Output:



QUESTION 3;

INPUTTED CODE;

Method/Solution 1:

Programming.cs(Class);

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace _12113_Shahmeer_s_OOP_Lab_Task_6
     class Programming
      {
           public string Language;
           public string Print()
                 return "I LOVE PROGRAMMING.";
           public string print()
                 return "I LOVE " + Language;
     }
}
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using System.Threading.Tasks;
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class Programming
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              public string Language;
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               public string Print()
                 return "I LOVE PROGRAMMING.";
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                 return "I LOVE " + Language;
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```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace _12113_Shahmeer_s_OOP_Lab_Task_6
      class Program
      {
            static void Main(string[] args)
                   Console.WriteLine("Lab Task 6:");
                   Console.WriteLine("Question no. 3:");
                   Console.WriteLine();
                   Programming Hack = new Programming();
                   Console.Write("String?: ");
                   Hack.Language = Console.ReadLine();
                   if (Hack.Language == "")
                   {
                         Console.WriteLine(Hack.Print());
                   }
                   else
                   {
                         Console.WriteLine(Hack.print());
                   Console.ReadKey();
            }
      }
}
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    □ using System;

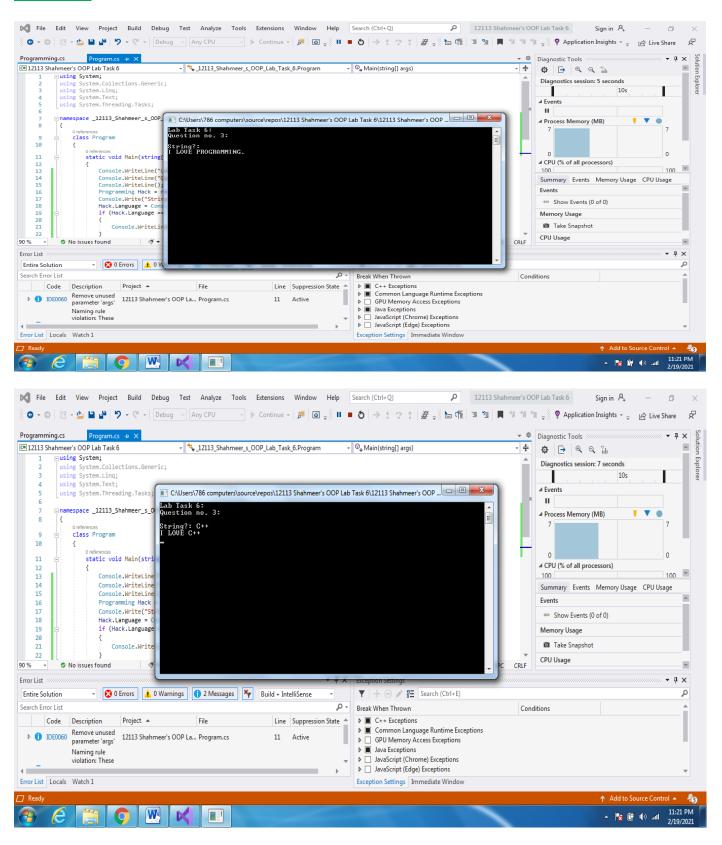
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          using System.Threading.Tasks;
         namespace _12113_Shahmeer_s_OOP_Lab_Task_6
             o references
class Program
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                static void Main(string[] args)
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                   Console.WriteLine("Lab Task 6:");
                   Console WriteLine("Question no. 3:");
Console WriteLine();
Programming Hack = new Programming();
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                     Console.WriteLine(Hack.Print());
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                     Console.WriteLine(Hack.print());
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                   Console.ReadKey();
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Method/Solution 2:

Programming.cs(Class);

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace _12113_Shahmeer_s_00P_Lab_Task_6
      class Programming
            public string Language;
            public Programming()
                  Console.WriteLine("I LOVE PROGRAMMING LANGUAGES.");
            public Programming(string language)
                  Language = language;
                  Console.WriteLine("I LOVE " + language);
            }
      }
}
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                                                                                                                                using System.Collections.Generic;
using System.Linq;
         using System.Threading.Tasks;
        namespace _12113_Shahmeer_s_00P_Lab_Task_6
            class Programming
    10
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               public string Language;
    12
                 Console.WriteLine("I LOVE PROGRAMMING LANGUAGES.");
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               public Programming(string language)
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                 Language = language;
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                 Console.WriteLine("I LOVE " + language);
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```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace _12113_Shahmeer_s_OOP_Lab_Task_6
{
       class Program
       {
             static void Main(string[] args)
                    Console.WriteLine("Lab Task 6:");
                    Console.WriteLine("Question no. 3:");
                    Console.WriteLine();
                    Console.Write("String?: ");
                    string Language = Console.ReadLine();
                    Console.WriteLine();
                    if (Language == "")
                    {
                           Programming Hack = new Programming();
                    }
                    else
                    {
                           Programming Hack = new Programming(Language);
                    Console.ReadKey();
             }
      }
}
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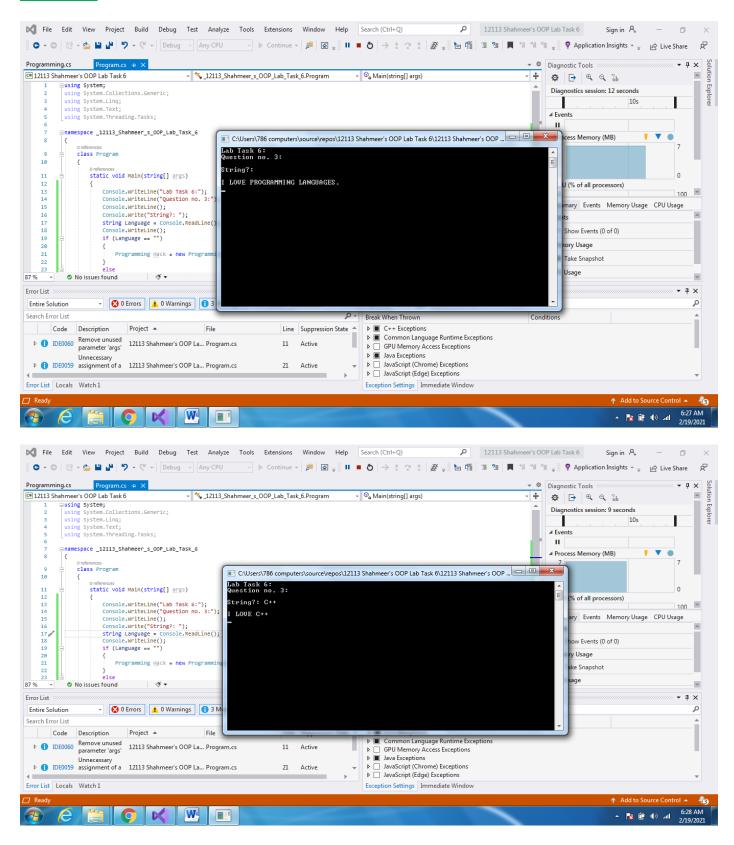
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using System.Linq;

using System.Threading.Tasks;
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              class Program
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                 static void Main(string[] args)
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                    Console.WriteLine("Lab Task 6:");
Console.WriteLine("Question no. 3:");
Console.WriteLine();
                    Console.Write("String?: ");
                    string Language = Console.ReadLine();
Console.WriteLine();
if (Language == "")
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                       Programming Hack = new Programming(Language);
                     Console.ReadKey();
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QUESTION 4;

<u>INPUTTED CODE;</u>

Rectangle.cs(Class);

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace 12113 Shahmeer s OOP Lab Task 6
    class Rectangle
        public double Length;
        public double Breadth;
        public void calculatearea()
            double area = Length * Breadth;
            Console.WriteLine("The Area of the rectangle is : " + area);
        public Rectangle()
            Console.WriteLine("\nNo parameter constructor ");
        public Rectangle(double sameparameter)
            Console.WriteLine("\nSame parameter constructor ");
            Console.Write("Input Length and Breadth as one parameter: ");
            sameparameter = double.Parse(Console.ReadLine());
            this.Length = sameparameter;
            this.Breadth = sameparameter;
        public Rectangle(double a, double b)
            Console.WriteLine("\nTwo parameter constructor ");
            Console.Write("Input Length Pararmeter: ");
            a = double.Parse(Console.ReadLine());
            Console.WriteLine();
            Console.Write("Input Breadth Pararmeter: ");
            b = double.Parse(Console.ReadLine());
            this.Length = a;
            this.Breadth = b;
        }
    }
}
```

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                                                                                                                                                                                               class Rectangle
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                      public double Breadth:
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                      public void calculatearea()
                         double area = Length * Breadth;
Console.WriteLine("The Area of the rectangle is : " + area);
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                      public Rectangle()
     20
                         Console.WriteLine("\nNo parameter constructor ");
                      reference
public Rectangle(double sameparameter)
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                         Console.WriteLine("\nSame parameter constructor ");
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                         Console.Write("Input Length and Breadth as one pan
sameparameter = double.Parse(Console.ReadLine());
this.Length = sameparameter;
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                         this.Breadth = sameparameter;
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                                                                                                                                                                                                ▲ C# 12113 Shahmeer's OOP
                      public Rectangle(double a, double b)
                                                                                                                                                                                                  ▶ Properties
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                         Console.WriteLine("\nTwo parameter constructor ");
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                         a = double.Parse(Console.ReadLine());
Console.WriteLine();
Console.Write("Input Breadth Parameter: ");
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                                                                                                                                                                                              C# Programming.cs
C# Rectangle.cs
                         b = double.Parse(Console.ReadLine());
                          this.Length = a;
this.Breadth = b;
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```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace _12113_Shahmeer_s_OOP_Lab_Task_6
{
    class Program
    {
        static void Main(string[] args)
            Console.WriteLine("Lab Task 6:");
            Console.WriteLine("Question no. 4:");
            Console.WriteLine();
            Rectangle constructor1 = new Rectangle();
            constructor1.calculatearea();
            double num1 = 0;
            Rectangle constructor2 = new Rectangle(num1);
            constructor2.calculatearea();
            double num2 = 0;
            double num3 = 0;
            Rectangle constructor3 = new Rectangle(num2, num3);
            constructor3.calculatearea();
            Console.ReadKey();
        }
    }
}
```

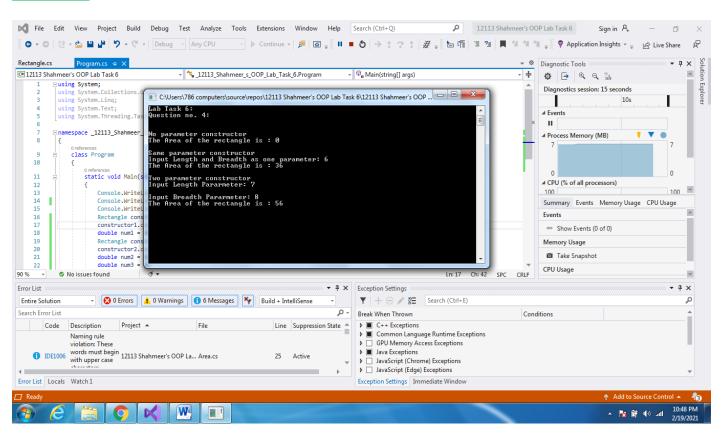
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Rectangle.cs Program.cs → X
# 12113 Shahmeer's OOP Lab Task 6
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using System.Collections.Generic;
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                                 using System.Lina:
                              using System.Threading.Tasks;
                            □namespace 12113 Shahmeer s OOP Lab Task 6
                                          class Program
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                                                    static void Main(string[] args)
                                                             Console.WriteLine("Lab Task 6:");
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                                                              Console.WriteLine("Question no. 4:");
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                                                             Console.WriteLine();
Rectangle constructor1 = new Rectangle();
constructor1.calculatearea();
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                                                               double num1 = 0;
                                                             Rectangle constructor2 = new Rectangle(num1);
constructor2.calculatearea();
double num2 = 0;
double num3 = 0;
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                                                              Rectangle constructor3 = new Rectangle(num2, num3);
constructor3.calculatearea();
Console.ReadKey();
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QUESTION 5;

INPUTTED CODE;

Area.cs(Class);

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace _12113_Shahmeer_s_00P_Lab_Task_6
    class Area
    {
        public double length;
        public double breadth;
        public double Area_of_Rectangle = 0;
        public Area()
            Console.Write("Enter Length: ");
            length = int.Parse(Console.ReadLine());
            Console.WriteLine();
            Console.Write("Enter Breadth:");
            breadth = int.Parse(Console.ReadLine());
            Console.WriteLine();
            double area_of_Rectangle = length * breadth;
            Area_of_Rectangle += area_of_Rectangle;
        public void returnArea()
            double Area_Rectangle = Area_of_Rectangle;
            Console.WriteLine("Area of Rectangle: " + Area_Rectangle);
    }
}
```

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Area.cs -> X Program.cs
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                                                                                                                                                                                                                    using System.Collections.Generic;
              using System.Threading.Tasks;
             namespace _12113_Shahmeer_s_OOP_Lab_Task_6
                    3 references
class Area
                         public double length;
public double breadth;
public double Area_of_Rectangle = 0;
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public Area()
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                             Console.Write("Enter Length: ");
length = int.Parse(Console.ReadLine());
Console.WriteLine();
Console.Write("Enter Breadth:");
breadth = int.Parse(Console.ReadLine());
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                              Console.WriteLine();
double area_of_Rectangle = length * breadth;
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                         1 reference
public void returnArea()
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                               double Area_Rectangle = Area_of_Rectangle;
Console.WriteLine("Area of Rectangle: " + Area_Rectangle);
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C* Student.cs
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```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace _12113_Shahmeer_s_OOP_Lab_Task_6
{
    class Program
    {
        static void Main(string[] args)
            Console.WriteLine("Lab Task 6:");
            Console.WriteLine("Question no. 5:");
            Console.WriteLine();
            Area Object = new Area();
            Object.returnArea();
            Console.ReadKey();
        }
    }
}
```

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           ⊟using System;
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using System.Collections.Generic;
using System.Linq;
             using System.Text:
            using System.Threading.Tasks;
           namespace _12113_Shahmeer_s_OOP_Lab_Task_6
                 class Program
     9
10
                     static void Main(string[] args)
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                        Console.WriteLine("Lab Task 6:");
Console.WriteLine("Question no. 5:");
Console.WriteLine();
Area Object = new Area();
Object.returnArea();
Console.ReadKey();
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