Name: Upoma khatun

Semester:4th

Technology:Computer

Shift:2nd

Roll: 420650

1.Write a program about single inheritance

Program.cs

Animal

```
using System;

public class Animal
{
    public void Eat()
    {
        Console.WriteLine("Eating");

    }
}
public class tiger : Animal
{
    public void Roar()
    {
        Console.WriteLine("Roaring");
    }
}
public class singleInheritance
{
    public static void Main(string[] args)
    {
        tiger obj = new tiger();
        obj.Eat();
        obj.Roar();
        Console.ReadKey();
```

100 %

Error List

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```
Eating
Roaring
```

2.Write a program about multilevel inheritance

Program.cs

Animal | Eat()

```
using System;
public class Animal
{
    public void Eat()
    {
        Console.WriteLine("Eating");
    }
}
public class Tigher : Animal
{
    public void Roar()
    {
        Console.WriteLine("Roaring");
    }
}
public class babyTigher : Tigher
{
    public void Weep()
    {
        Console.WriteLine("Weeping");
    }
}
public class Multilevelinheritance
{
    public static void Main(string[] args)
    {
        babyTigher Obj = new babyTigher();
        Obj.Eat();
        Obj.Roar();
        Obj.Weep();
        Console.ReadKey();
    }
}
```

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```
Eating
Roaring
Weeping
```

3.Write a program about hearchicalinheritance

Program.cs

Lion

```
using System;
public class Animal
{
    public void Eat()
    {
        Console.WriteLine("Eating");
    }
}
public class Tiger : Animal
{

    public void Roar(){
        Console.WriteLine("Roaring");
    }
}
public class Lion : Animal
{
    public void Run()
    {
        Console.WriteLine("Roaring");
    }
}
public class Hiearinheritance
{
    public static void Main(String[] args){
        Tiger obj =  new Tiger();
        Lion obj2 = new Lion();
        obj.Eat();
        obj.Roar();
        obj2.Eat();
        obj2.Run();
        Console.ReadKey();
    }
}
```

```
Eating
Roaring
Eating
```

4.write a program about constructor

Program.cs

Constructor

```
using System;
class Animal
{
    public Animal()
    {
        Console.WriteLine("Constracting");
    }
}
public class Constructor{

    public static void Main(string[]args){
        Animal obj = new Animal();
         Console.ReadKey();
    }
}
```

```
Constracting
```

5.write a program about Destructor

Program.cs

Destructor

```
using System;
class Animal
{
    public Animal()
    {
        Console.WriteLine("Constructing");
        //Constructor Method Created
    }
    ~Animal()
    {
        Console.WriteLine("Drestructing");
        //Destructor Method Created
    }
}
public class Destructor
{
    public static void Main(string[] args)
    {
        Animal Obj = new Animal();
        Console.ReadKey();
    }
}
```

file:/...

```
Constructing
```

6.write a program about interface

Program.cs

Interface

```
using System;
class Demo
{
    public void MyMethod()
    {
        Console.WriteLine("Sometext");
    }
    public void MyOtherMethod()
    {
        Console.WriteLine("Someothertext");
    }
}
public class Interface
{
    public static void Main(string[] args)
    {
        Demo obj = new Demo();
        obj.MyMethod();
        obj.MyOtherMethod();
        Console.ReadKey();
    }
}
```

```
Sometext
Someothertext
```

7.write a program about Ascivalue

Program.cs

Program

```
using System;
class Program
{
    static void Main(string[] args)
    {
        int A = 'A';
        int V = 'B';
        int X = 'X';
        int m = 'm';
        Console.WriteLine(A);
        Console.WriteLine(V);
        Console.WriteLine(X);
        Console.WriteLine(m);
        Console.ReadKey();
    }
}
```

```
65
66
88
109
```

8. 2 ti sonkhar jogfol er program

Program.cs

Program | Main(string[] args)

```
using System;
class Program
{
    static void Main(string[] args)
    {
        string firstNumbrInput, secondNumberInput;
        int firstNumber, secondNumber, result;
        firstNumbrInput = Console.ReadLine();
        secondNumberInput = Console.ReadLine();
        firstNumber = Convert.ToInt32(firstNumbrInput);
        secondNumber = Convert.ToInt32(secondNumberInput);
        result = firstNumber + secondNumber;
        Console.WriteLine("the sum of {0} and {1} is = {2}", firstNumber,secondNumber,result);
        Console.ReadKey();
    }
}
```

file:///c:/u...

```
10
9
the sum of 10 and 9 is = 19
```

9. 2 ti sonkhar man niye program

Program.cs

Program

```
using System;
class Program
{
    static void Main(string[] args)
    {
        int firstNumber = 10, secondNumber = 50, result;
        result = firstNumber + secondNumber;
        Console.WriteLine(result);
        Console.ReadKey();
    }
}
```

```
60
```

10. Data abstraction proggram

Program.cs

Tiger | animalSounc

```
using System;
public abstract class Animal
{
    public abstract void animalSound();
    public void Eat()
    {
        Console.WriteLine("Eating....");
    }
}
public class Dog : Animal
{
    public override void animalSound()
    {
        Console.WriteLine("Barking....");
    }
}
public class Tiger : Animal
{
    public override void animalSound()
    {
        Console.WriteLine("Roaring....");
    }
}
public class Abstraction_program
{
    static void Main(string[] args)
    {
        Dog obj = new Dog();
        obj.animalSound();
        obj.Eat();
        Tiger obj2 = new Tiger();
        obj2.animalSound();
        obj.Eat();
        Console.ReadKey();
    }
}
```

100 %

```
Barking....
Eating....
Roaring....
Eating....
```

11. Dighat somikaron program

rogram | Main(String[] args)

```
using System;
public class Program
{
    public static void Main(String[]args)
    {
        double a = Convert.ToDouble(Console.ReadLine());
        double b = Convert.ToDouble(Console.ReadLine());
        double c = Convert.ToDouble(Console.ReadLine());
        Double D = b * b - 4 * a * b;
        if (D > 0)
        {
            Double r1 = (-b + Math.Sqrt(D)) / 2 * a;
            Double r2 = (-b - Math.Sqrt(D)) / 2 * a;
            Console.WriteLine("Roots are = {0},{1}", r1, r2);
        }
        else if (D == 0)
        {
            double r = -b / 2 * a;
            Console.WriteLine("Roots is = {0}, r");
        }
        else
            Console.WriteLine("Roots are Imeginary");
        Console.ReadKey();
    }
}
```

file:///C:/Users...

```
7
8
9
Roots are Imeginary
```

12. Int type program

Program.cs

Program

```
using System;
class Program
{
    static void Main(string[] args)
    {
        int value = 'a';
        Console.WriteLine(value);
        Console.WriteLine(value);
        Console.ReadKey();
    }
}
```

```
97
97
```

13. Int sonkha program

Program.cs

Program

Main(string[] arg

```
{
    public void Add(int x, int y)
    {
        Console.WriteLine(x + y);
    }
    public void Add(int x, int y, int z)
    {
        Console.WriteLine(x + y + z);
    }
    public void Add(double x, double y)
    {
        Console.WriteLine(x + y);
    }
}
class Program
{
    static void Main(string[] args)
    {
        Sum obj = new Sum();
        obj.Add(10, 20);
        obj.Add(10, 20, 50);
        obj.Add(20.32, 80.54);
        Console.ReadKey();
    }
}
```

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```
30
80
100.86
```

14. Name input niye program

Program.cs

Program

```
using System;
class Program
{
    static void Main(string[] args)
    {
        Console.WriteLine("Hello World");
        Console.ReadKey();
    }
}
```

```
Hello World
```

15. Keyword niye program

```
using System;
class Program
{
    static void Main(string[] args)
    {
        string Name = "Tasnuva";
        int age = 19;
        double gpa = 50.305222254458452365;
        Console.WriteLine("Her name is = {0} , age is = {1} and gpa is = {2}", Name, age, gpa);
        Console.ReadKey();
    }
}
```

```
Her name is = Tasnuva , age is = 19 and gpa is = 50.3052222544585
```

16. Largest number ber korar program

rogram.cs

Large_number.Program

Main(stri

```
using System;
namespace Large_number
{
    class Program
    {
        static void Main(string[] args)
        {
            int a = Convert.ToInt32(Console.ReadLine());

            int b = Convert.ToInt32(Console.ReadLine());
            int c = Convert.ToInt32(Console.ReadLine());
            if (a > b && a > c)
            {
                Console.WriteLine(" {0} is the large number", a);
                Console.ReadKey();
            }
            else if (b > c && b > a)
            {
                Console.WriteLine(" {0} is the large number", b);
                Console.ReadKey();
            }
            else
            {
                Console.WriteLine(" {0} is the large number", c);
                Console.ReadKey();
            }
        }
    }
}
```

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```
4
5
6
 6 is the large number
```

17. Variable er man ber korar program

Program.cs

Program

```
using System;
class Program
{
    static void Main(string[] args)
    {
        int firstNumber = 10, secondNumber = 50, result;
            result = firstNumber + secondNumber;
        Console.WriteLine("{0} + {1} = {2}", firstNumber, secondNumber, result);
        Console.ReadKey();
    }
}
```

```
10 + 50 = 60
```

18. Write a program about userinput

Program.cs

Program

```
using System;
class Program
{
    static void Main(string[] args)
    {
        string userinput;
        int age;
        userinput = Console.ReadLine();
        age = Convert.ToInt32(userinput);
        Console.WriteLine(age);
        Console.ReadKey();
    }
}
```

```
7
7
```

19. Write a program about data abastraction

Program.cs

Tiger | animalSound

```
using System;
public abstract class Animal
{
    public abstract void animalSound();
    public void Eat()
    {
        Console.WriteLine("Eating....");
    }
}
public class Dog : Animal
{
    public override void animalSound()
    {
        Console.WriteLine("Barking....");
    }
}
public class Tiger : Animal
{
    public override void animalSound()
    {
        Console.WriteLine("Roaring....");
    }
}
public class Abstraction_program
{
    static void Main(string[] args)
    {
        Dog obj = new Dog();
        obj.animalSound();
        obj.Eat();
        Tiger obj2 = new Tiger();
        obj2.animalSound();
        obj.Eat();
        Console.ReadKey();
    }
}
```

100 %

```
Barking....
Eating....
Roaring....
Eating....
```

20. Write a program about Tringle program

Program.cs

Area_of_Triangle.Program

```
using System;

namespace Area__of_Triangle
{
    class Program
    {
        static void Main(string[] args)
        {
            Console.Write("Enter the length of side 1:");
            double a = Convert.ToDouble(Console.ReadLine());
            Console.Write("Enter the length of side 2:");
            double b = Convert.ToDouble(Console.ReadLine());
            Console.Write("Enter the lrngth of side 3:");
            double c = Convert.ToDouble(Console.ReadLine());

            if(a < 0 || b < 0 || c < 0 ||(a + b <= c) ||(a + c <= b) || (b + c <= a))
            {
                Console.WriteLine("Not a valid Triangle");
                Console.ReadKey();
            }
            else
            {
                double s = (a + b + c) / 2;
                double Area = Math.Sqrt (s * (s - a) * (s - b) * (s - c));
                Console.Write("Area of a Triangle = {0}",Area);
                Console.ReadKey();
            }
        }
    }
}
```

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```
Enter the length of side 1:
```