Object Oriented Programming

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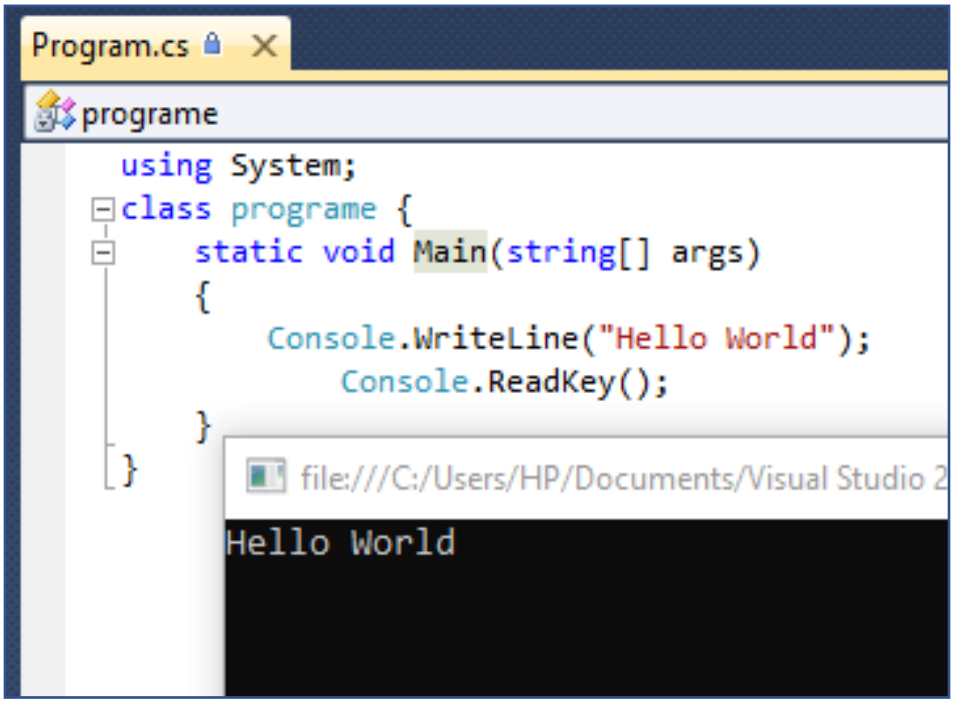
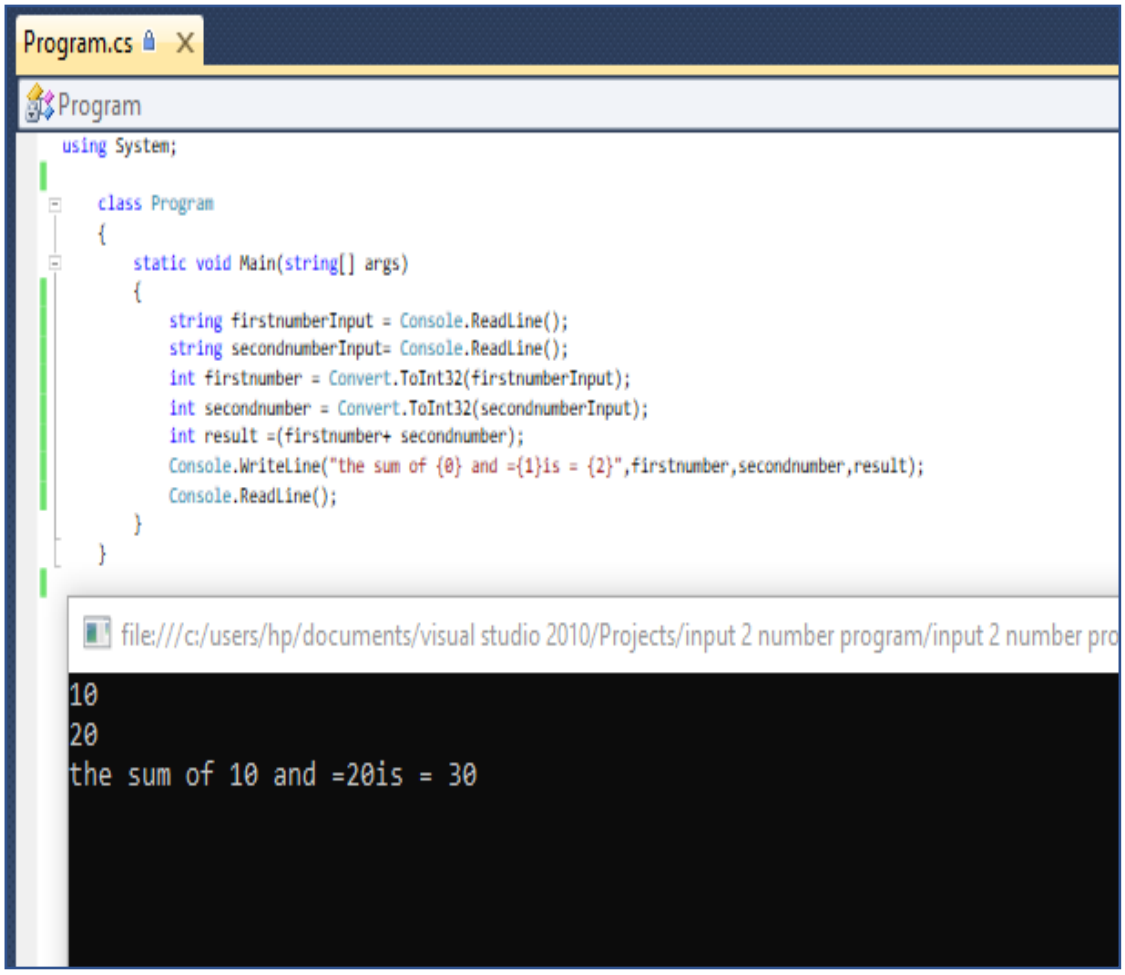
CMT 4th, 2nd Shift

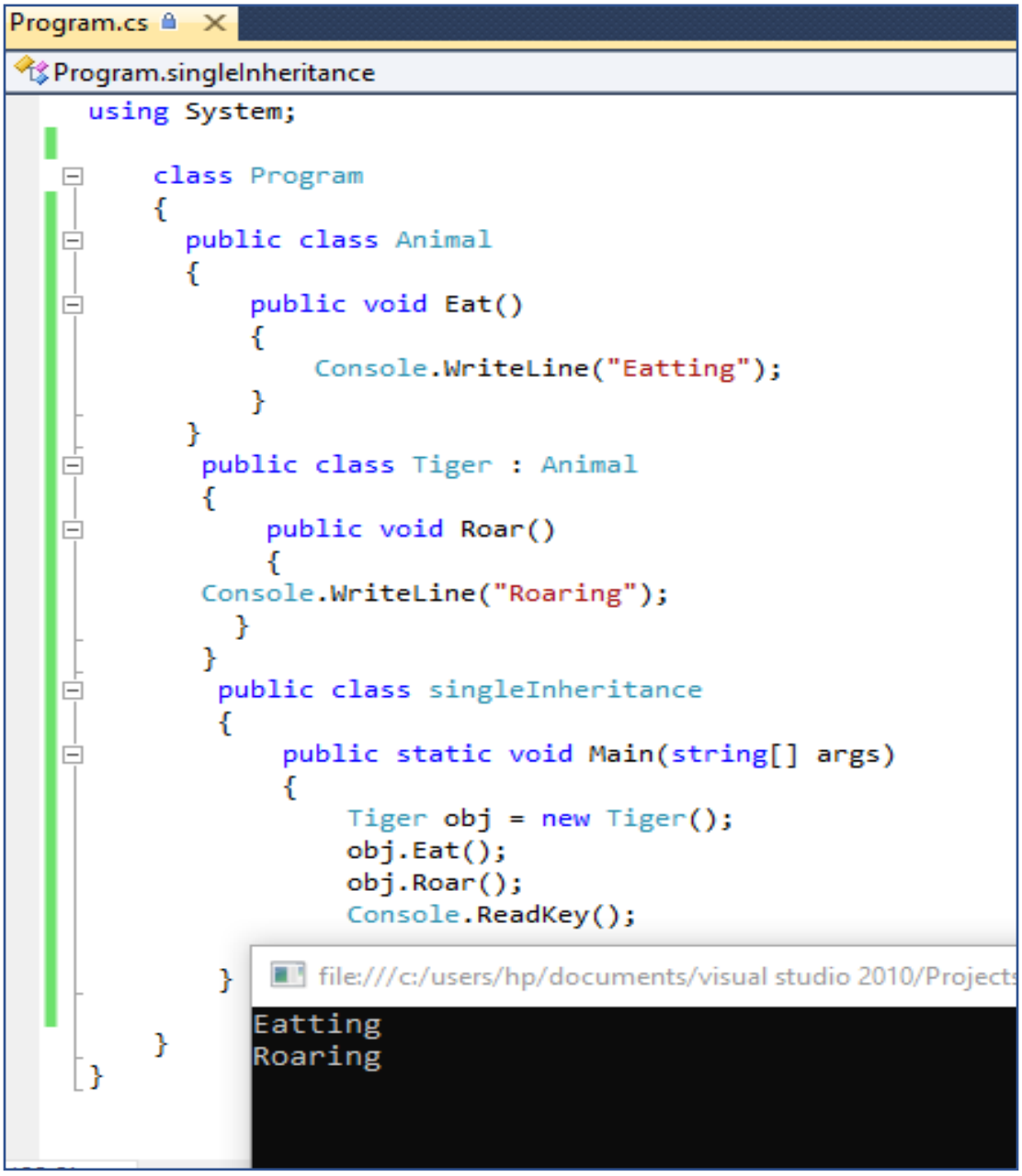
1. Hello World Programe:



2. Sum between 2 numbers:



3. Single Inheritance:



4. Multilevel Inheritance:

Program.cs

Program.BabyTiger

```
using System;

class Program
{
    public class Animal
    {
        public void Eat()
        {
            Console.WriteLine("Eatting......");
        }
    }
    public class Tiger : Animal
    {
        public void Roar()
        {
            Console.WriteLine("Roaring......");
        }
    }
    public class BabyTiger : Tiger
    {
        public void weep()
        {
            Console.WriteLine("weeping......");
        }
    }
    public class multilevelInheritance
    {
        public static void Main(string[] args)
        {
            BabyTiger obj = new BabyTiger();
            obj.Eat();
            obj.Roar();
            obj.weep();
            Console.ReadKey();

        }
    }
}
```

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```
Eatting......
Roaring......
weeping......
```

5. Hairarcical Inheritance:

Program.cs

Program.HairarchicalInheritance

```
using System;

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

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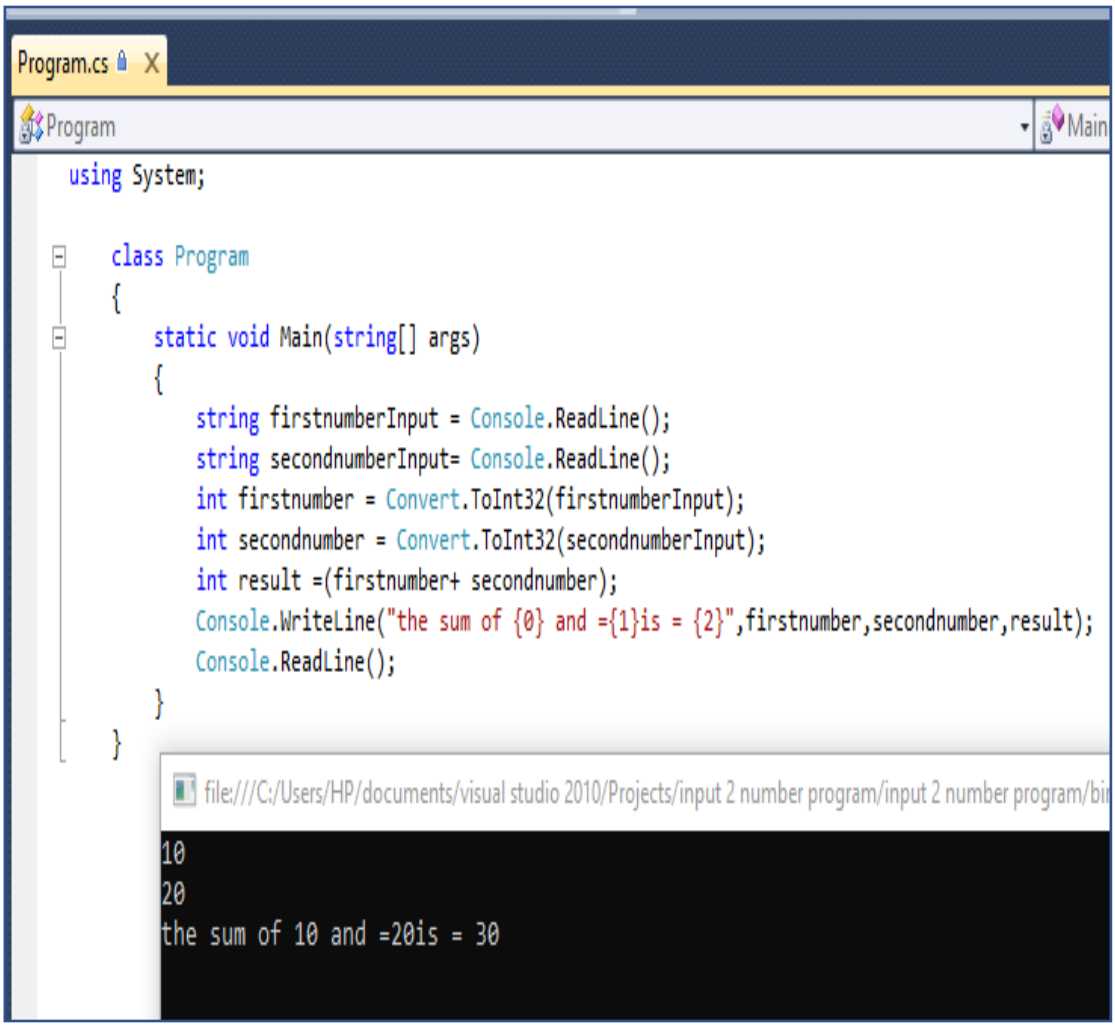
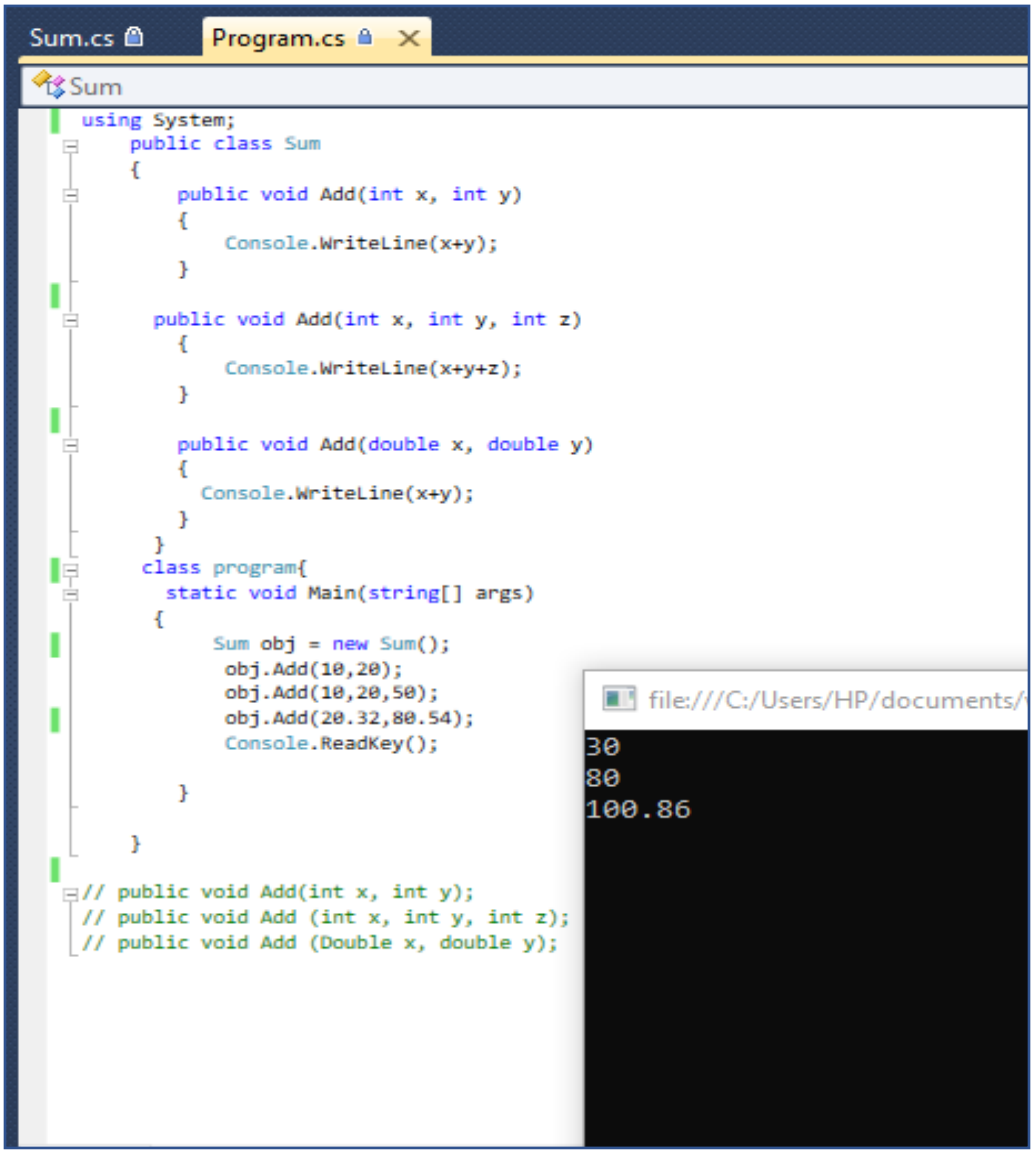
```
Eatting......
Roaring......
Eatting......
Running......
```

6. Sum between 2 numbers:



7. Polymorphisum:



8. Abstraction programe:

Program.cs

Animal.Dog

```
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("Barging....");
    }
}
    public class Abstractionprograme
    {
        static void Main(string[] args)
        {
            Dog obj =new Dog();
            obj.animalsound();
            obj.Eat();
            Console.ReadKey();
        }
    }
}
```

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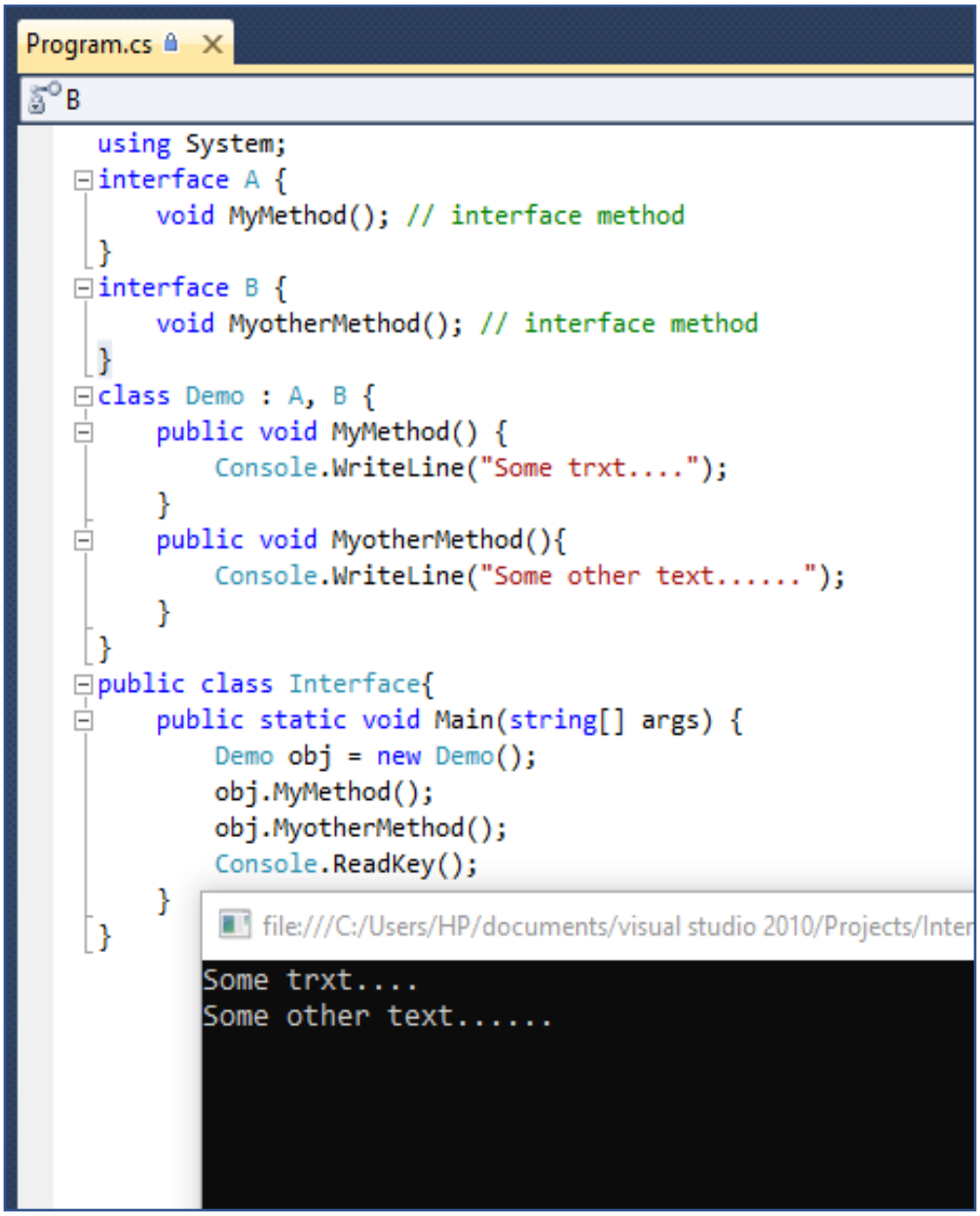
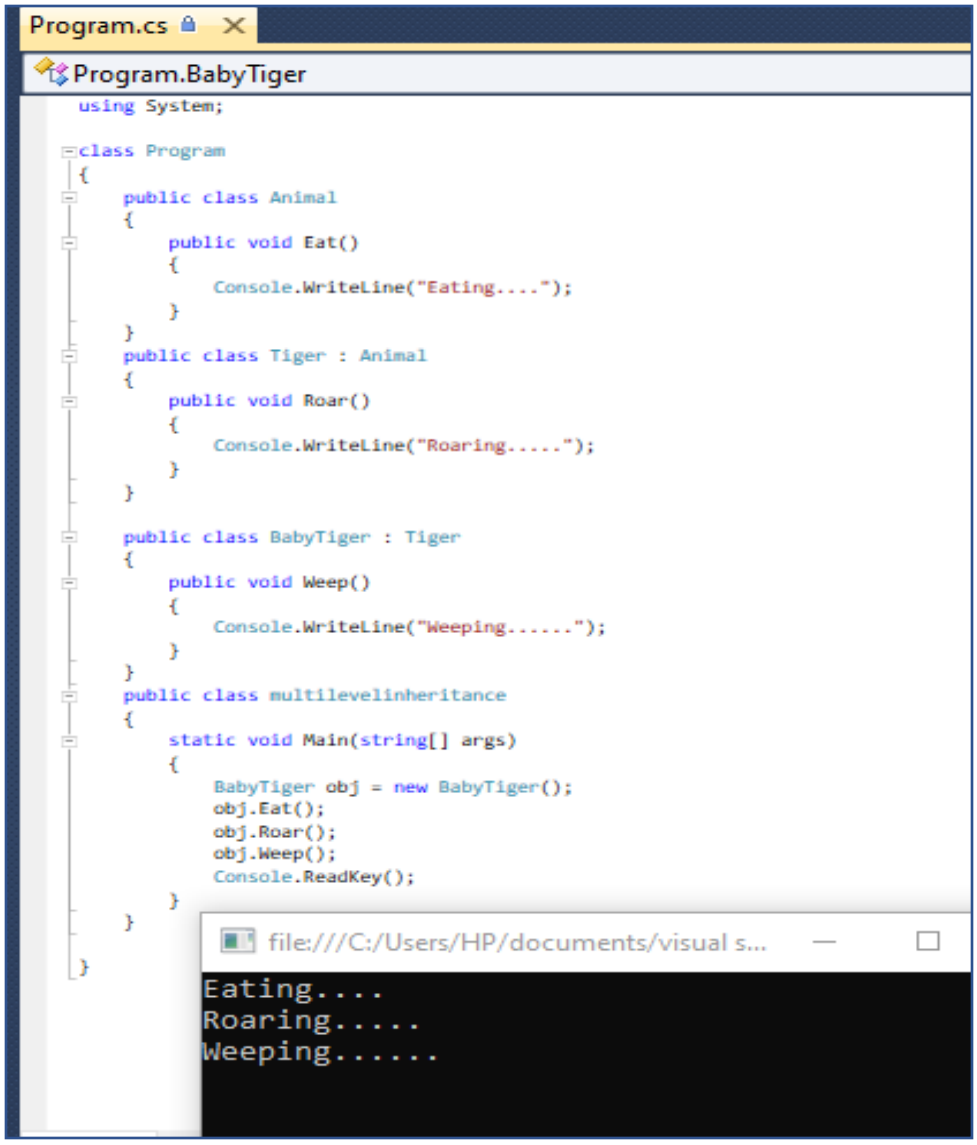
```
Barging....
Eating.....
```

9. Multiple Inheritance:



10. Multilevel Inheritance:



11. Areya of a triangle:

Program.cs

programe

```
using System;

class programe
{
    static void Main(string[] args)
    {
        double a = Convert.ToDouble(Console.ReadLine());
        double b = Convert.ToDouble(Console.ReadLine());
        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 Void Traingle");
            Console.ReadKey();
        }
        else {
            double s = (a + b + c) / 2;
            double area = Math.Sqrt(s*(s-a)*(s-b)*(s-c));
            Console.WriteLine("area of a traingle = {0}",area);
            Console.ReadKey();
        }
    }
}
```

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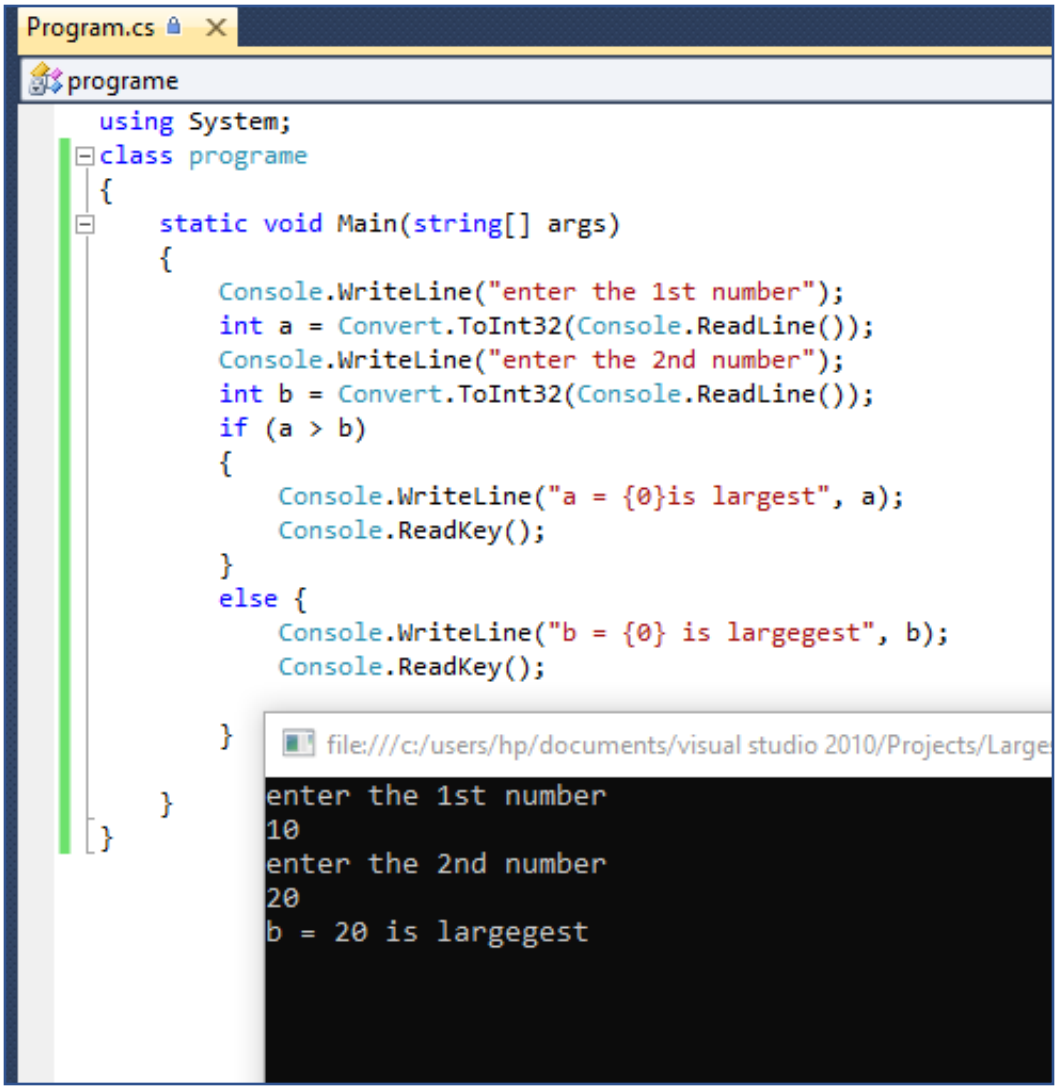
```
10
15
20
area of a traingle = 72.6184377413891
```

12. Largest number between 2 nombers:



13. Largest number between 3 numbers:

programe

```
using System;
class programe
{
    static void Main(string[] args)
    {
        Console.WriteLine("enter the 1st number");
        int a = Convert.ToInt32(Console.ReadLine());
        Console.WriteLine("enter the 2nd number");
        int b = Convert.ToInt32(Console.ReadLine());
        int c = Convert.ToInt32(Console.ReadLine());
        if (a > b && a > c)
        {
            Console.WriteLine("a = {0}is large", a);
            Console.ReadKey();
        }
        else if (b > a && b > c)
        {
            Console.WriteLine("b = {0} is large", b);
            Console.ReadKey();
        }
        else
        {
            Console.WriteLine("{0} is the large", c);
            Console.ReadKey();
        }
    }
}
```

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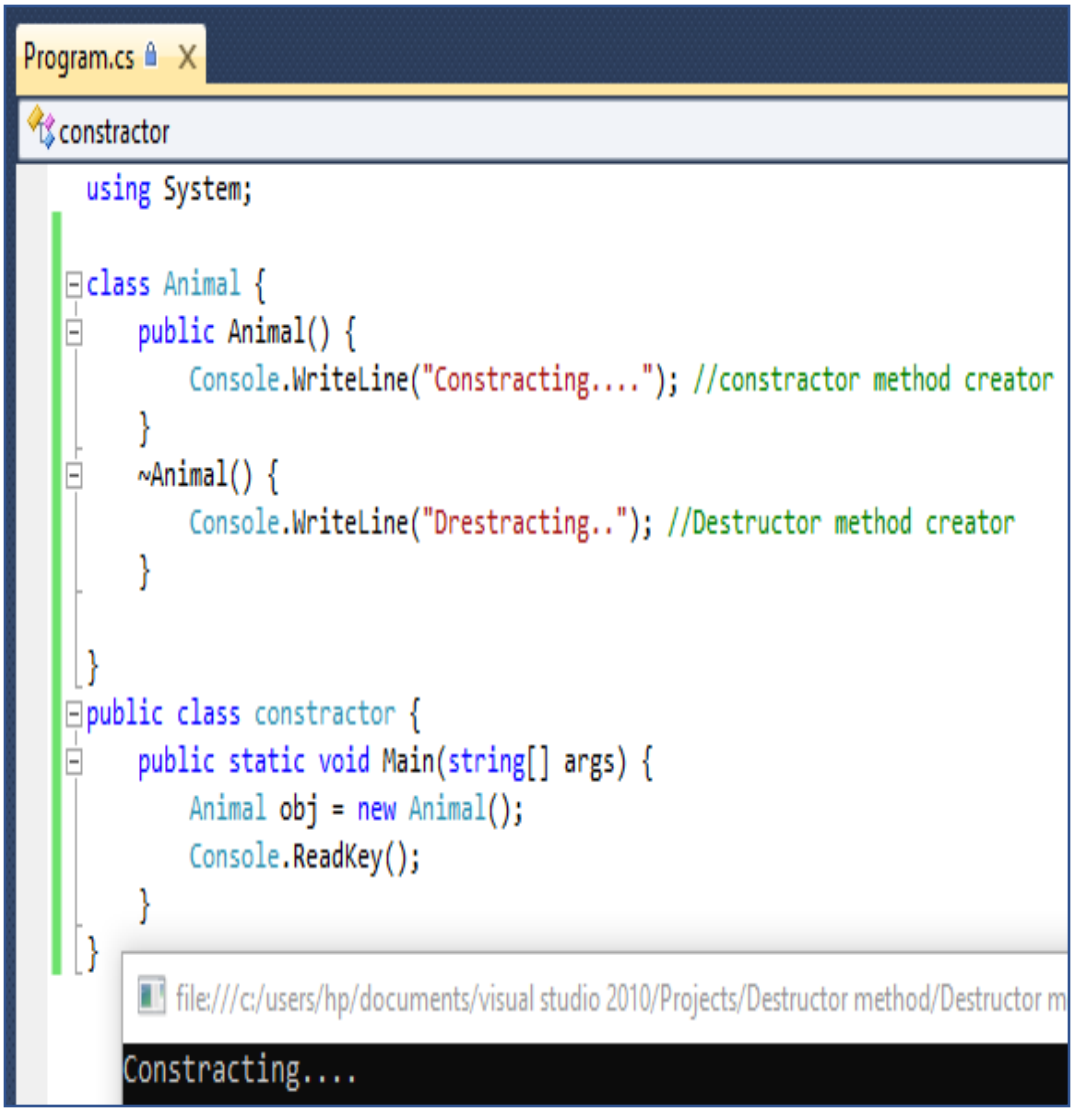
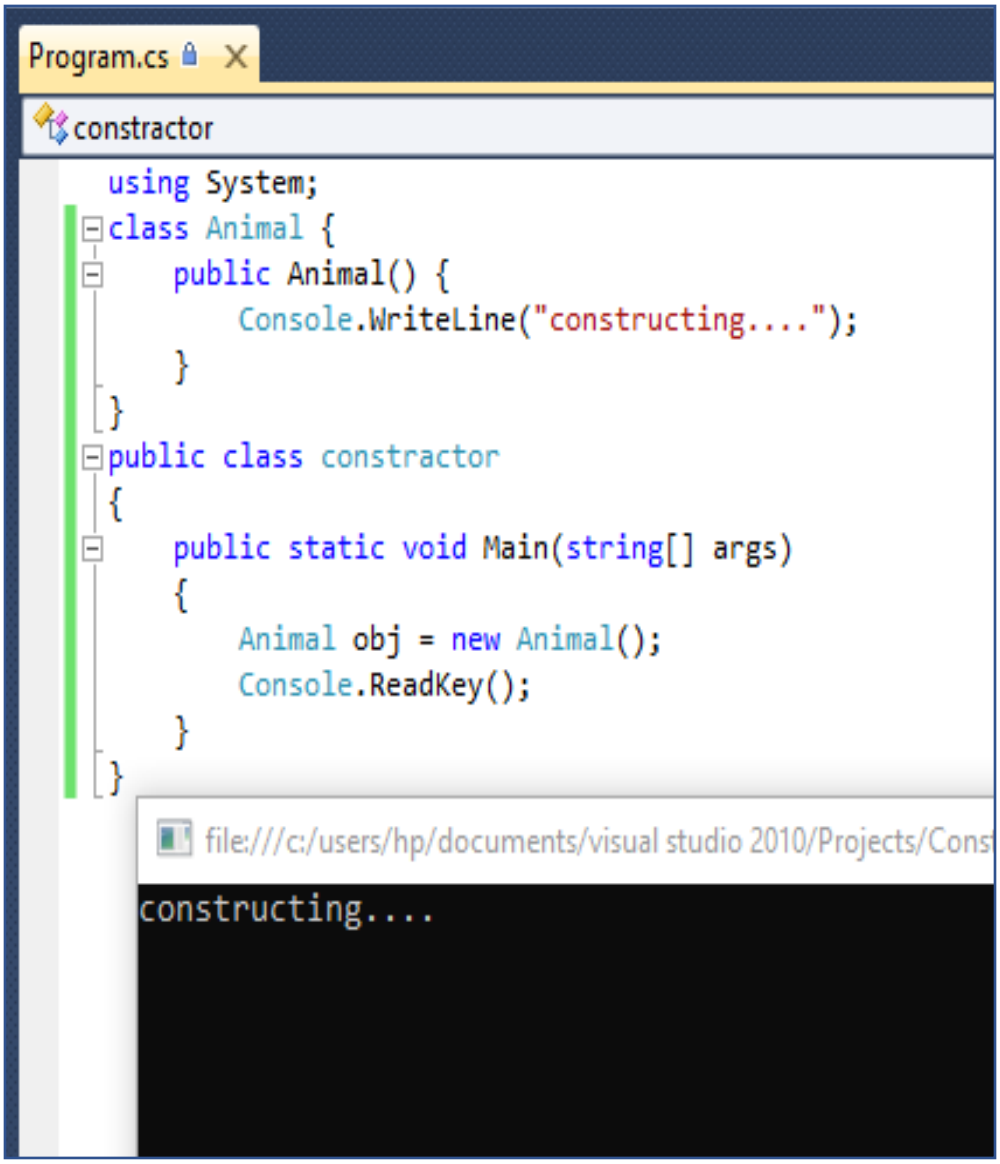
```
enter the 1st number
10
enter the 2nd number
20
30
30 is the large
```

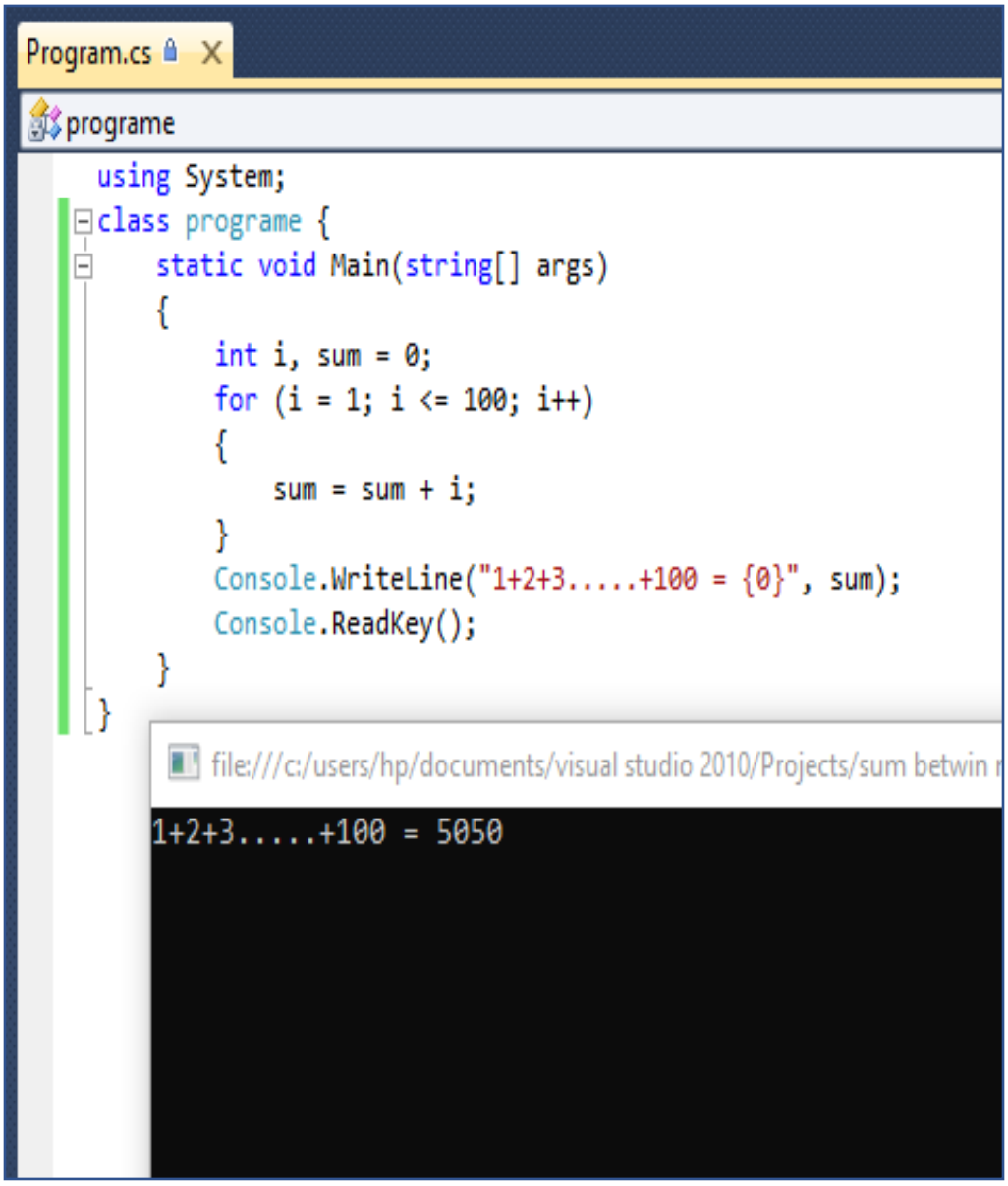
14. Constractor -Distractor method:



15. Constractor method:



16. For loop programe:



17. Abstructor method programe:

Program.cs

programe

```
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("Bearging....");
    }
}
public class Tiger : Animal
{
    public override void AnimalSound()
    {
        Console.WriteLine("Roaring.....");
    }
}
class programe
{
    static void Main(string[] args)
    {
        Dog obj = new Dog();
        obj.AnimalSound();
        obj.Eat();
        Tiger obj2 = new Tiger();
        obj2.AnimalSound();
        obj2.Eat();
        Console.ReadKey();
    }
}
```

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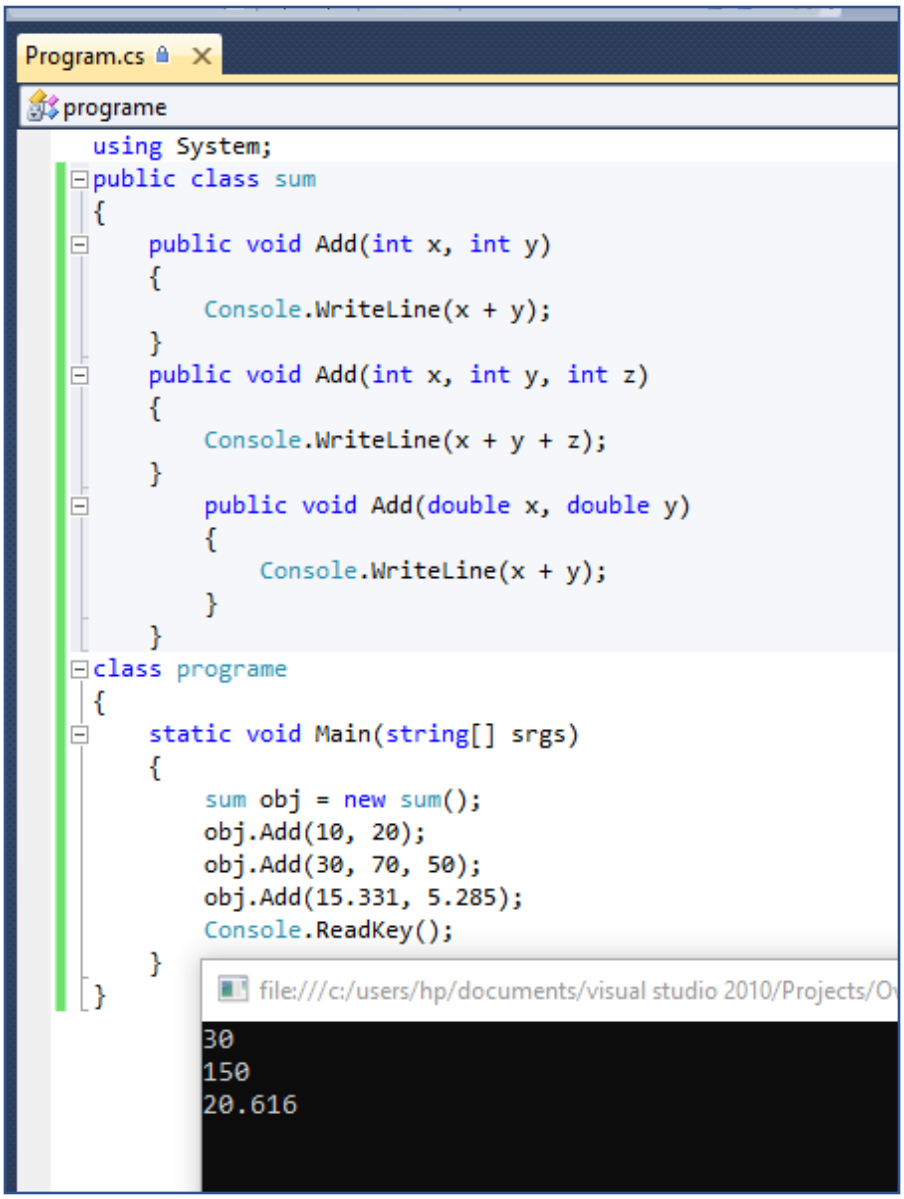
```
Bearging....
Eating.....
Roaring.....
Eating.....
```

18. Overloading method programe:



19. Dighat somikoron ar Programe: