BASIC JAVA PROGRAMS

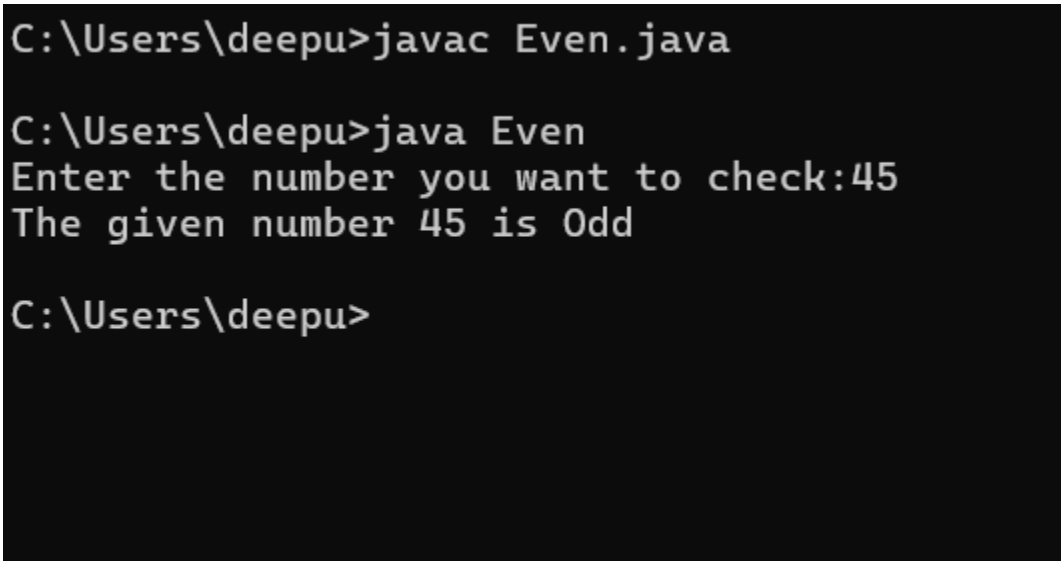
AIM: IF AND ELSE

CODE:

```
import java.util.Scanner;
public class Even
{
   public static void main(String[] args)
   {
      int n;
      Scanner s = new Scanner(System.in);
      System.out.print("Enter the number you want to
check:");
      n = s.nextInt();
      if(n % 2 == 0)
      {
         System.out.println("The given number "+n+" is Even ");
      }
      else
      {
```

```
        System.out.println("The given number "+n+" is Odd ");
}
   }
}
```

OUTPUT:



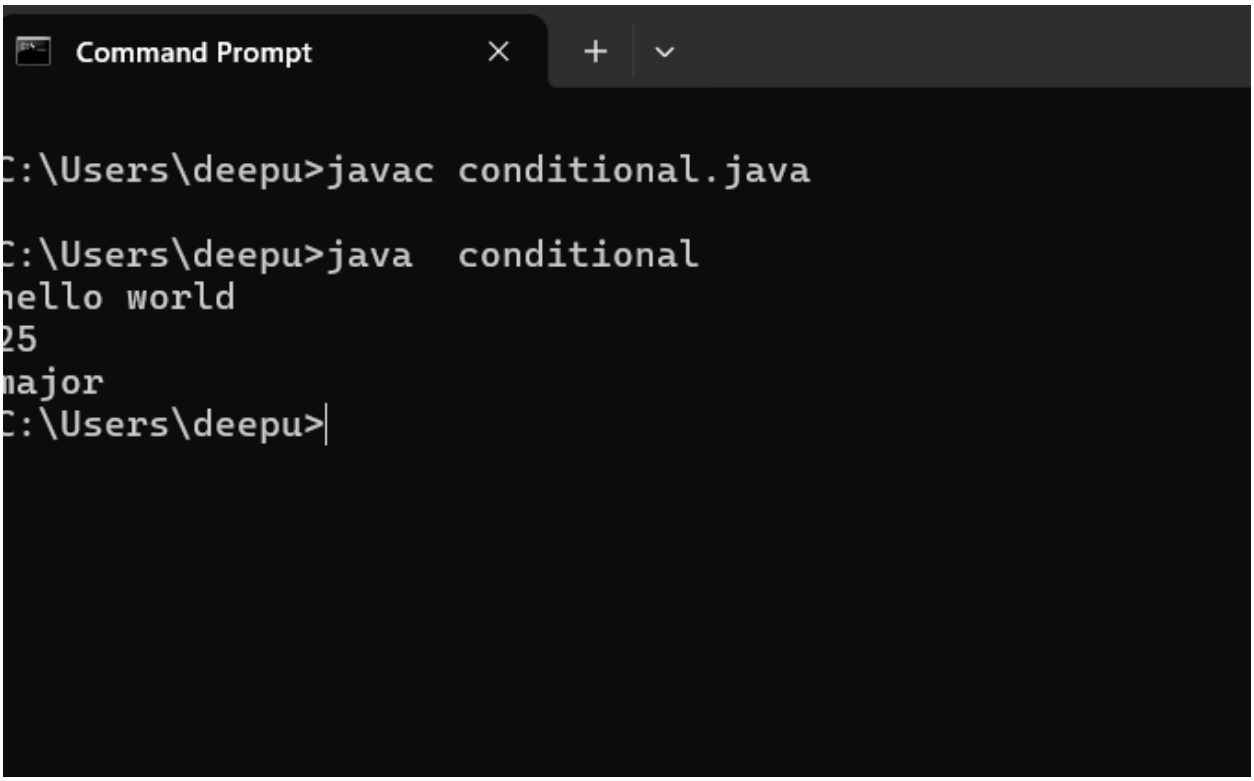
Aim: Condition statements

Code:

```
import java.util.Scanner;
class conditional {
   public static void main(String[] args){
      System.out.println("hello world");
      Scanner a=new Scanner(System.in);
      int age=a.nextInt();
```

```
        if (age<18){
            System.out.print("minor");
        }
        else if(age<60){
            System.out.print("major");
        }
        else{
            System.out.print("senior");
        }

    }

}
```

OUTPUT:



AIM:

SWITCH CASE

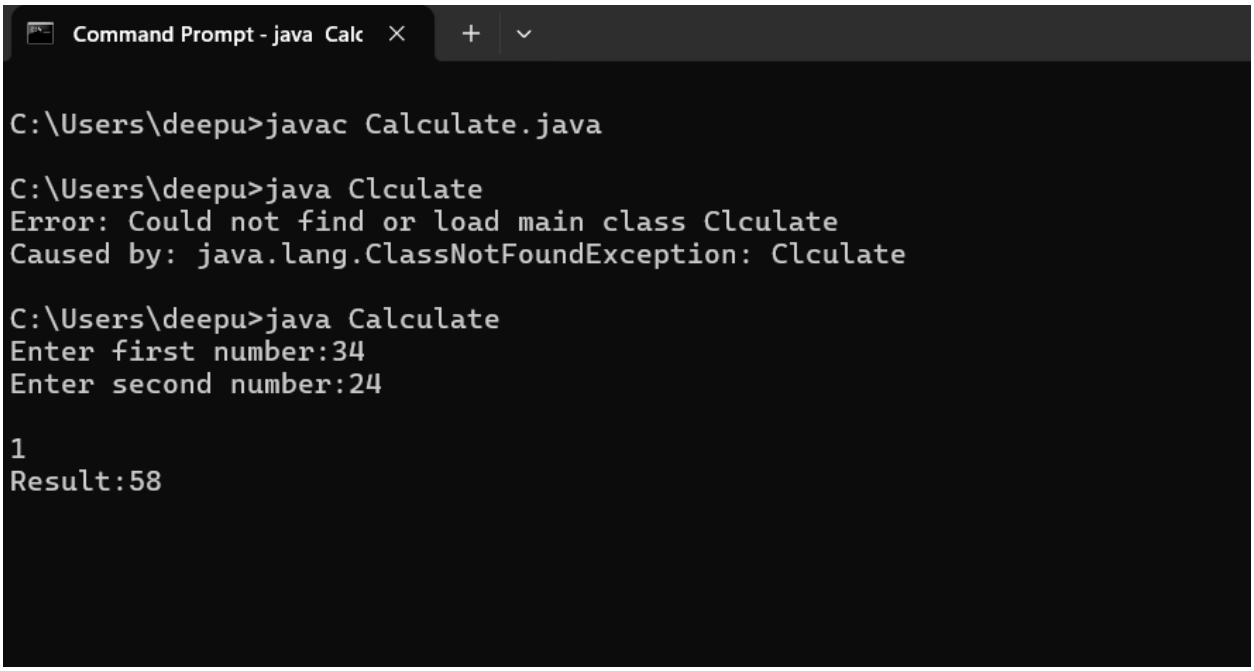
CODE:

```
import java.util.Scanner;
public class Calculate
{
   public static void main(String[] args)
   {
      int m, n, opt, add, sub, mul;
      double div;
```

```
Scanner s = new Scanner(System.in);
System.out.print("Enter first number:");
m = s.nextInt();
System.out.print("Enter second number:");
n = s.nextInt();
while(true)
{
   opt = s.nextInt();
   switch(opt)
   {
      case 1:
      add = m + n;
      System.out.println("Result:"+add);
      break;

      case 2:
      sub = m - n;
      System.out.println("Result:"+sub);
      break;
```

```
            case 3:
            mul = m * n;
            System.out.println("Result:"+mul);
            break;

            case 4:
            div = (double)m / n;
            System.out.println("Result:"+div);
            break;

            case 5:
            System.exit(0);
        }
      }
   }
}
```

Output:

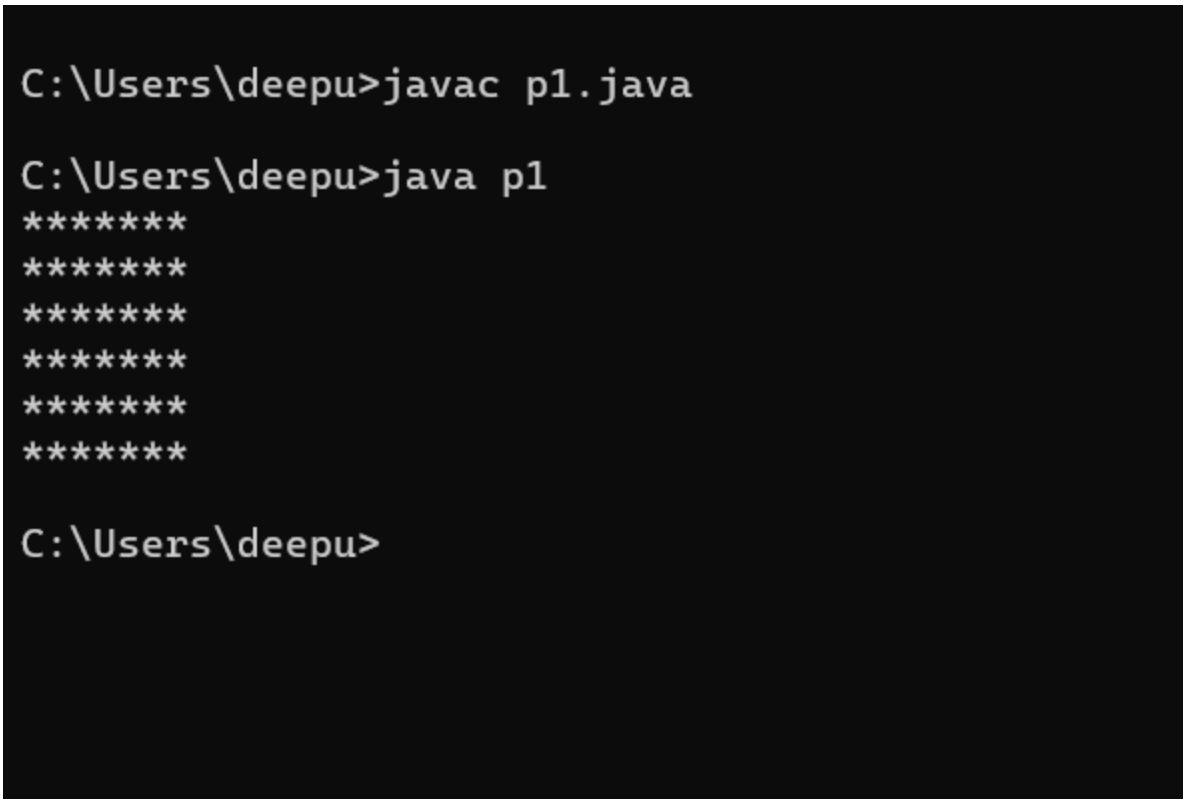


AIM: For loop

CODE:

```
class p1 {
   public static void main(String[] args) {
      for (int i = 0; i <= 5; i = i + 1) {
         for (int j = 0; j <= 5; j = j + 1) {
            System.out.print("*");
         }
         System.out.println("*");
      }
   }
}
```

OUTPUT:



AIM:

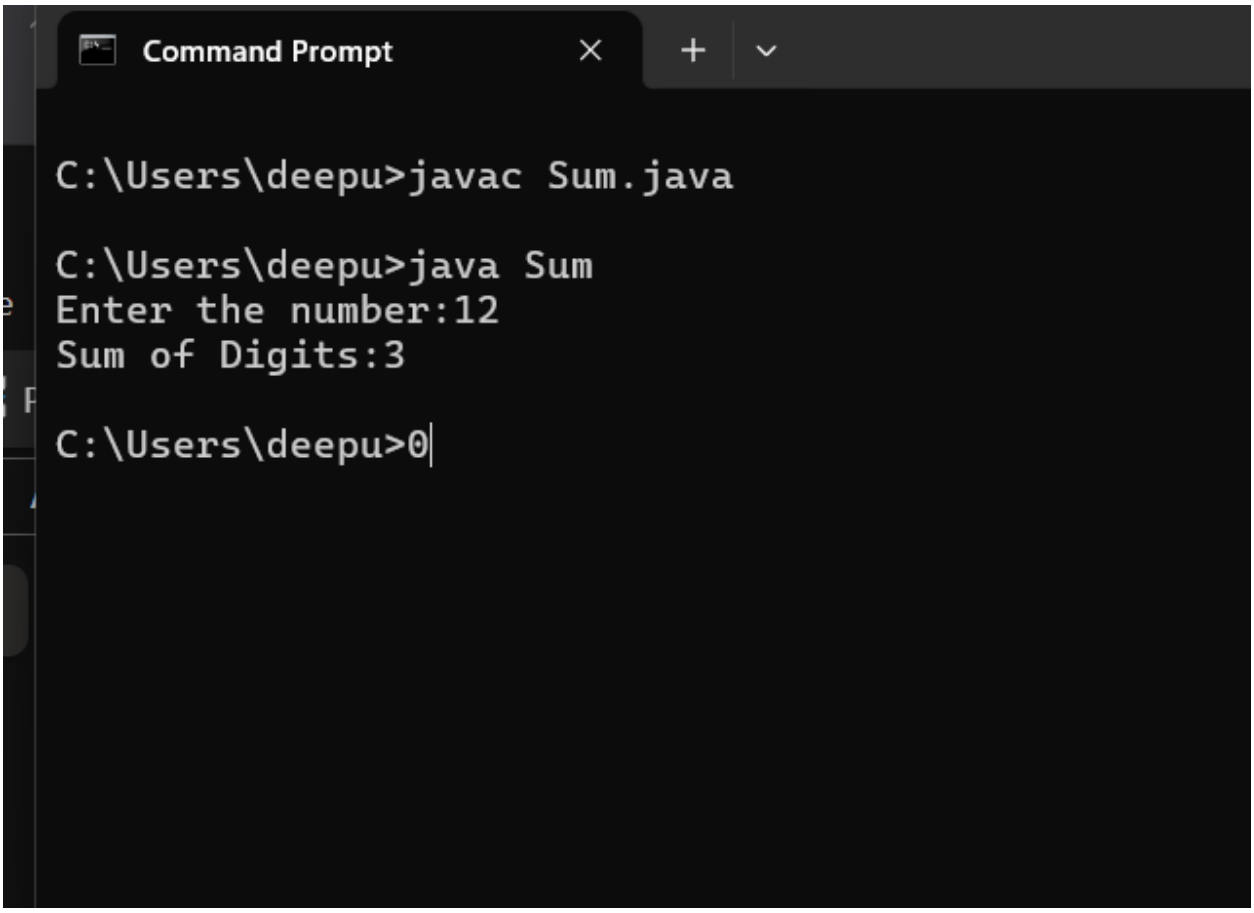
WHILE LOOP

CODE:

```
import java.util.Scanner;
public class Sum
{
   public static void main(String args[])
   {
      int m, n, sum = 0;
      Scanner s = new Scanner(System.in);
      System.out.print("Enter the number:");
      m = s.nextInt();
      while(m > 0)
```

```
    {
      n = m % 10;
      sum = sum + n;
      m = m / 10;
    }
    System.out.println("Sum of Digits:"+sum);
  }
}
```

OUTPUT:



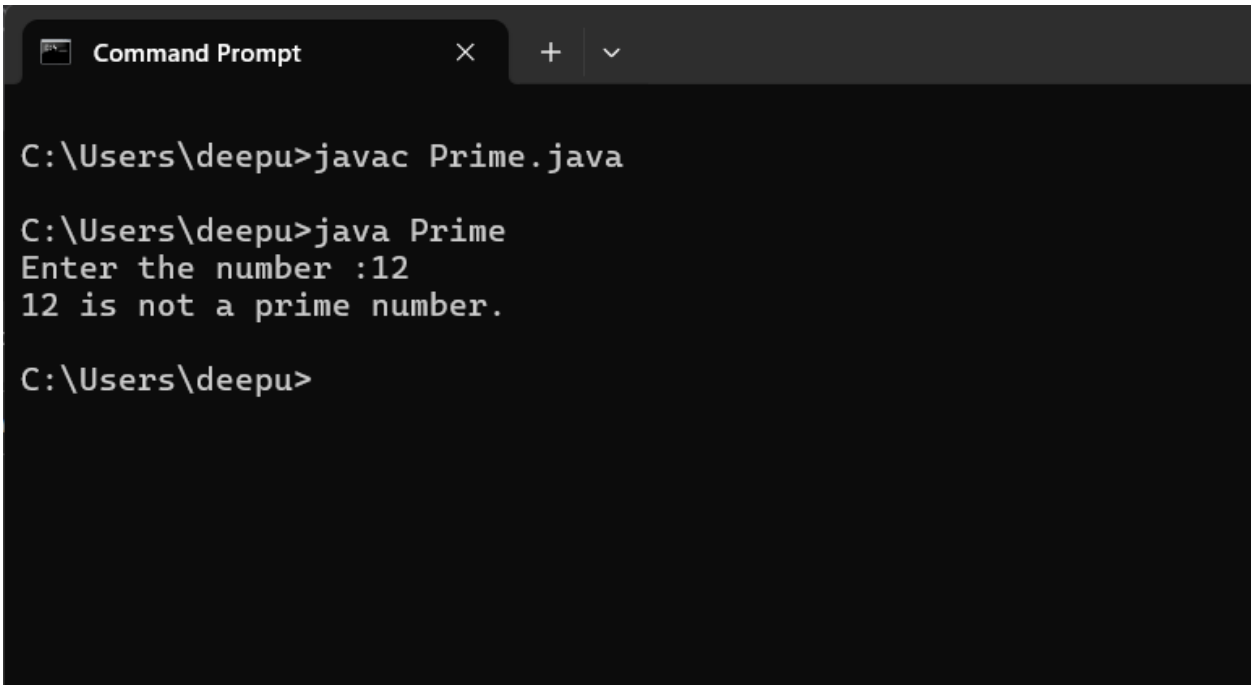
AIM: TO CHECK PRIME NUMBER OR NOT

CODE:

```
import java.util.Scanner;
public class Prime
{
   public static void main(String args[])
   {
      int j, num, flag = 0;
      System.out.print("Enter the number :");
      Scanner s = new Scanner(System.in);
      num = s.nextInt();
      for( j = 2; j < num; j++)
      {
         if(num % j == 0)
         {
            flag = 0;
            break;
         }
```

```
        else
        {
           flag = 1;
        }
      }
      if(flag == 1)
      {
         System.out.println(""+num+" is a prime number.");
      }
      else
      {
         System.out.println(""+num+" is not a prime number.");
      }
   }
}
```

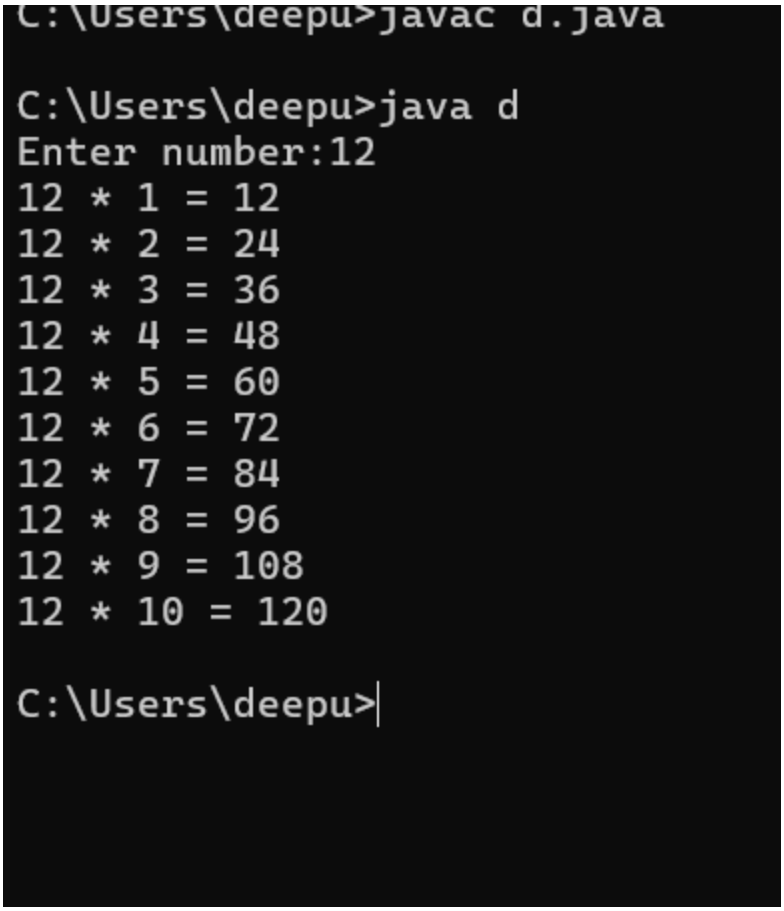
OUTPUT:



CODE:

```
import java.util.Scanner;

public class d { public static void main(String[] args) {

 Scanner s = new Scanner(System.in);

 System.out.print("Enter number:");

 int n=s.nextInt();

for(int i=1; i <= 10; i++)

{ System.out.println(n+" * "+i+" = "+n*i);

 }

}

 }
```

OUTPUT:



AIM:

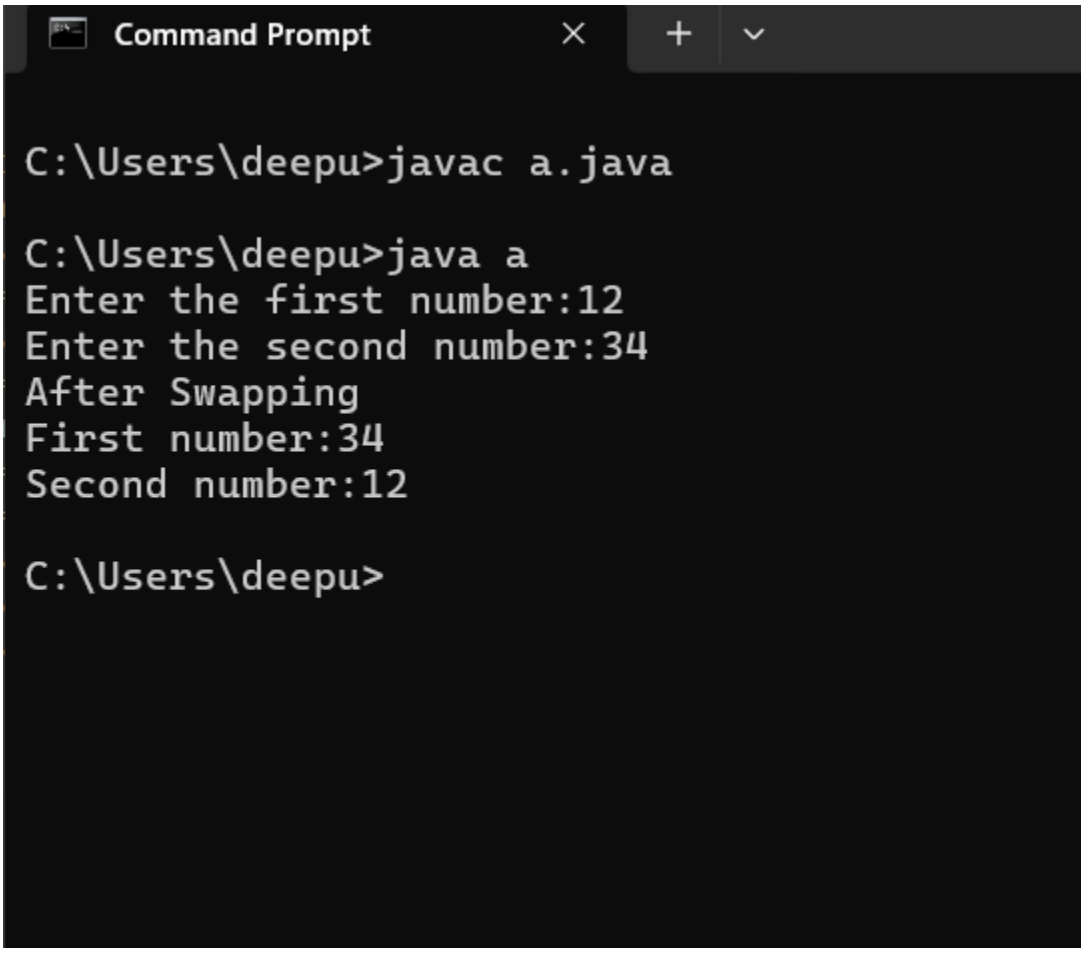
Using scanner class

CODE:

```
import java.util.Scanner;

public class a

{

   public static void main(String args[])

   {

      int m, n, temp;

      Scanner s = new Scanner(System.in);
```

```
        System.out.print("Enter the first number:");
        m = s.nextInt();
        System.out.print("Enter the second number:");
        n = s.nextInt();
        temp = m;
        m = n;
        n = temp;
        System.out.println("After Swapping");
        System.out.println("First number:"+m);
        System.out.println("Second number:"+n);
    }
}
```

OUTPUT:



AIM: INHERITANCE

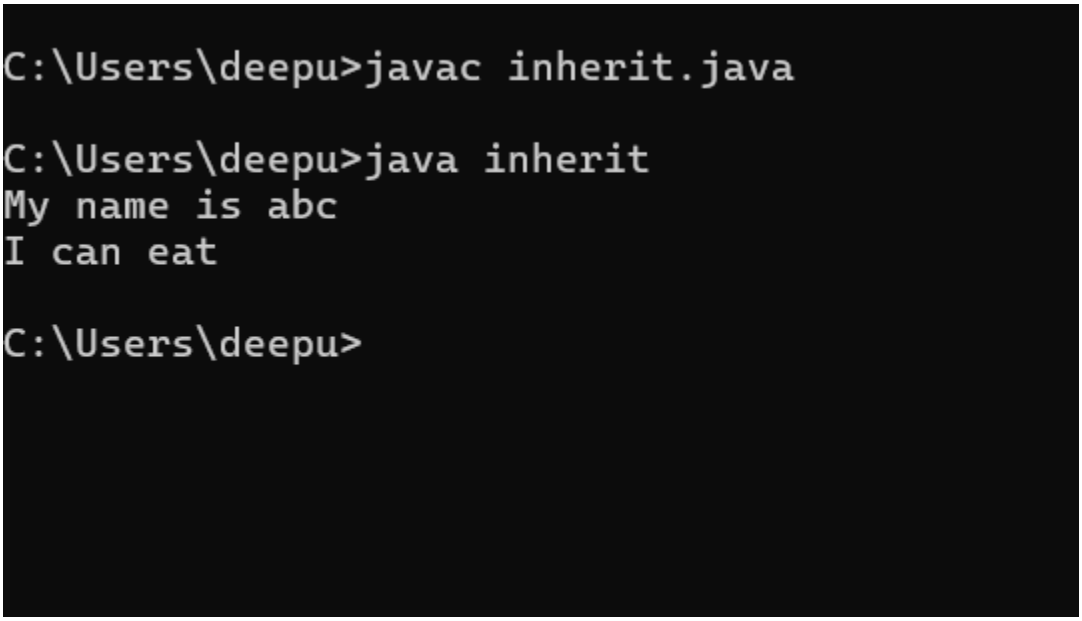
CODE:

```
class Animal {



  String name;

  public void eat() {

    System.out.println("I can eat");
```

```
  }
}



class Dog extends Animal {
   public void display() {
    System.out.println("My name is " + name);
  }
}

class inherit{
  public static void main(String[] args) {


    Dog a = new Dog();



    a.name = "abc";
    a.display();
    a.eat();

  }
```

}

OUTPUT:


C:\Users\deepu>javac inherit.java
C:\Users\deepu>java inherit
My name is abc
I can eat
C:\Users\deepu>

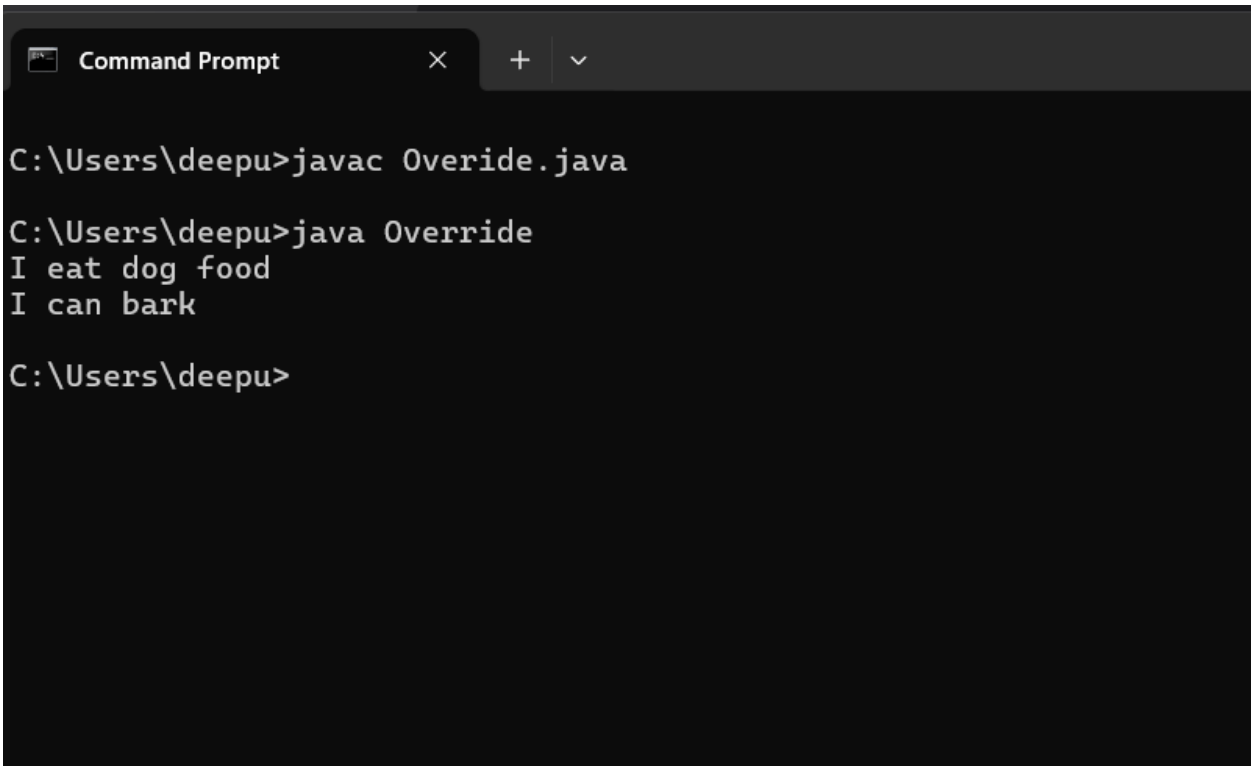
CODE:

```
class Animal {


  public void eat() {
    System.out.println("I can eat");
  }
}


class Dog extends Animal {


  public void eat() {
    System.out.println("I eat dog food");
  }


  public void bark() {
    System.out.println("I can bark");
  }
```

```
}


class Override{
  public static void main(String[] args) {



    Dog a= new Dog();


      a.eat();
    a.bark();
  }
} class Animal {



  public void eat() {
    System.out.println("I can eat");
  }
}



class Dog extends Animal {
```

```
 public void eat() {
  System.out.println("I eat dog food");
 }


 public void bark() {
  System.out.println("I can bark");
 }
}

class Override{
 public static void main(String[] args) {


  Dog a= new Dog();


   a.eat();
  a.bark();
 }
}
```

OUTPUT:



AIM:

OVERLOAD

CODE:

```
class A {



  public static int Multiply(int a, int b)

  {


    return a * b;

  }
```

```
    public static double Multiply(double a, double b)
    {

        return a * b;
    }
}
public class Overload
{

    public static void main(String[] args) {
     A n=new A();
      System.out.println(n.Multiply(2, 4));
        System.out.println(n.Multiply(5.5, 5.5));
    }
}
```

OUTPUT: