```java
1)import java.io.*;
import java.util.Scanner;
class Q1{
    public static void main(String args[])
   {
       Scanner sc = new Scanner(System.in);
       String s = sc.nextLine();
       String s1 = sc.nextLine();
       s=s+" ";

       int l = s.length();

       int l1= s1.length();

       char a[]=new char[l+l1];

       for(int i = 0; i < l;i++)
       {
          a[i]=s.charAt(i);
       }

       for(int i=0;i<l1;i++)
       {
          a[i+l]=s1.charAt(i);
       }

       for(int i=(a.length)-1;i>=0;i--)
       {
          System.out.print(a[i]);
```

```
        }
    }
}




2) import java.util.*;

class Point

{

    int a,b;

    double radius;

    Point(int x,int y,double z)

    {

        a=x;

        b=y;

        radius = z;

    }


}




public class Q2 {

    public static void main(){

        Scanner sc = new Scanner(System.in);

        int x = sc.nextInt();

        int y= sc.nextInt();

        double z = sc.nextDouble();

        Point p = new Point(x,y,z);

        double area = 3.14 * p.radius * p.radius;

        System.out.println(area);

    }

}
```

```java
3) import java.util.*;

class dynamicArrayPrint {

    Scanner sc = new Scanner(System.in);

    public void arrayPrint() {

        System.out.println("Enter the number of rows :-");
        int n = sc.nextInt();

        for(int i=1; i<=n; i++)
        {
            int arr[] = new int[i];

            for(int j=0; j<i; j++)
            {
                arr[j] = i;
                System.out.print(arr[j] + " ");
            }

            System.out.println();
        }
    }
}

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

        dynamicArrayPrint obj = new dynamicArrayPrint();
```

```java
        obj.arrayPrint();

    }

}


4) class A {

    void msg() {

        System.out.println("A is called here");

    }

}


class B extends A {

    void msg() {

        super.msg();

        System.out.println("B is called here");

    }

}


class Main extends B {

    void msg() {

        super.msg();

        System.out.println("C is called here");

    }

    public static void main(String args[]) {

        Main cc = new Main();

        cc.msg();

    }

}
```

4b

1. //Java program to convert primitive into objects
2. //Autoboxing example of int to Integer
3. **public class** WrapperExample1{
4. **public static void** main(String args[]){
5. //Converting int into Integer
6. **int** a=20;
7. Integer i=Integer.valueOf(a);//converting int into Integer explicitly
8. Integer j=a;//autoboxing, now compiler will write Integer.valueOf(a) internally
9.
10. System.out.println(a+" "+i+" "+j);
11. }}

5

```java
import java.util.*;

public class NestedTryBlock
{
 public static void main(String args[])
 {
   Scanner sc = new Scanner(System.in);

   int a = sc.nextInt();

   int b = sc.nextInt();

   System.out.println("SIZE");

   int n = sc.nextInt();

   int k[] = new int[n];

   for(int i =0;i<n;i++)
   {
     k[i]=sc.nextInt();
   }

   System.out.println("Enter the elemt youwant to access");

   int l = sc.nextInt();
```

```java
try{

   int c =a/b;


 }

 catch(Exception e)
 {
   System.out.println(e);
 }


 try{

  int d = k[l];


 }

 catch(Exception e)
 {
   System.out.println(e);
 }
 finally{
   int c =a/b;
   System.out.println(c);
   int d = k[l];
   System.out.println(d);
 }
}
}
```

```java
7) import java.util.*;
class q7{
 public static void main(String args[])
{
   String str;
   Scanner sc=new Scanner(System.in);
   str=sc.nextLine();
   String words[]=str.split(" ");
   int mx=0;
   int count=0;
   for(int i=0;i<words.length;i++)
   {
      count=0;
      for(int j=0;j<words[i].length();j++)
      {
         if(words[i].charAt(j) != 'a'&& words[i].charAt(j) != 'e' && words[i].charAt(j) != 'i' &&
words[i].charAt(j) != 'o' && words[i].charAt(j) != 'u'&& words[i].charAt(j) != ' ')
         {
            count++;
         }
      }
      mx=Math.max(count,mx);


   }
   for(int i=0;i<words.length;i++)
   {
      count=0;
      for(int j=0;j<words[i].length();j++){
         if(words[i].charAt(j) != 'a'&& words[i].charAt(j) != 'e' && words[i].charAt(j) != 'i' &&
words[i].charAt(j) != 'o' && words[i].charAt(j) != 'u'&& words[i].charAt(j) != ' ')
         {
```

```java
                count++;
            }
        }


        if(count==mx)
        System.out.println(words[i]+" ");
        count=0;
    }
}
}
```


6)


```java
import java.util.*;
class q8
{
    public static void main(String args[])
    {
        Scanner sc = new Scanner(System.in);

        while(true)
        {
            System.out.println("Press 1 for rectangle, 2 for triangle, 3 to exit.");
            int n = sc.nextInt();

            if(n == 3)
                break;
            else if(n == 1)
            {
                rectangle r = new rectangle();
```

```java
            r.calculate_area();

            r.display();

        }

        else if(n == 2)

        {

            triangle r = new triangle();

            r.calculate_area();

            r.display();

        }


    }

  }

}

abstract class shape{

    public void calculate_area()

    {


    }

    public void display()

    {


    }

}

class rectangle extends shape{


    Scanner sc= new Scanner(System.in);

    int l = sc.nextInt();

    int b = sc.nextInt();


    int ans = 0;
```

```java
        @Override
        public void calculate_area()
        {
            ans = l*b;
        }
        @Override
        public void display()
        {
            System.out.println("Area="+ans);
        }
}
class triangle extends shape
{
        Scanner sc= new Scanner(System.in);
        int h = sc.nextInt();
        int b = sc.nextInt();


        int ans = 0;
        @Override
        public void calculate_area()
        {
            ans=(b*h)/2;
        }
        @Override
        public void display()
        {
            System.out.println("Area="+ans);
        }
}
```