

```

import java.util.*;
class q1{
    public static void main(String args[] ) {
        String str1,str2;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the 1st string");
        str1=sc.nextLine();
        System.out.println("Enter the 2nd string");
        str2=sc.nextLine();

        int a=str1.length();
        int b=str2.length();

        char arr[]= new char[a+b];
        int j=0;
        for(int i=0;i<str1.length();i++){
            arr[j]=str1.charAt(i);
            j++;
        }
        for(int i=0;i<str2.length();i++){
            arr[j]=str2.charAt(i);
            j++;
        }

        char arr2[]= new char[a+b];

        j=0;
        for(int i=a+b-1;i>=0;i--){
            arr2[j]=arr[i];
            j++;
        }

        System.out.println(arr2);
    }
}

```

```

2. import java.util.*;

```

```

class point {
    int x, y;

    point(int a, int b) {
        x = a;
        y = b;
    }
}

```

```

class circle{
    public static void main(String args[])
    {
        Scanner sc= new Scanner( System.in);
        int m= sc.nextInt();
        int n=sc.nextInt();
        point pt=new point(m, n);
        double r=Math.sqrt(pt.x*pt.x+pt.y*pt.y);
        System.out.println(r);
    }
}

```

```

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 q3 {
    public static void main(String args[]) {

        dynamicArrayPrint obj = new dynamicArrayPrint();
        obj.arrayPrint();
    }
}

```

```

4b public static void main(String args[]){

    int a=20;
    Integer i=Integer.valueOf(a);
    Integer j=a;

    System.out.println(a+" "+i+" "+j);
}

4a 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();
    }
}

```

```

6 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("SIXE");
        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();
try{

    int c =a/b;
}

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

try{

    int d = k[l];

}

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

}
}

```

6

```

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();
    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;
```

```
@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);
}
}

```

```

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) != ' ')
                {
                    count++;
                }
            }
            // System.out.println(count);
            if(count==mx)

```

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