```java
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.

```java
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();
    }
}
```

4a.
```
public class q4a{

    public static void main(String args[]){

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

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

4b
```
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);
    }

}
}
```

5.
```
import java.util.*;

class q5
{
    public static void main()
    {
    Scanner sc= new Scanner(System.in);
    System.out.println("Enter two numbers:");
    int n=sc.nextInt();
    int m=sc.nextInt();
    System.out.println("");

    }
}
```

6.
```
import java.util.*;

public class q8
{
    public static void main(String args[])
    {
        try{
        Scanner sc= new Scanner(System.in);
            System.out.println("Enter two numbers");
        int a= sc.nextInt();
        int b=sc.nextInt();
            System.out.print("Enter the size of array:");
        int n=sc.nextInt();
        int arr[]=new int[n];
        System.out.println("Enter the elements of array:");
        for(int i=0;i<n;i++)
        {
            int d=sc.nextInt();
            arr[i]=d;
        }
```

```
        System.out.println("Enter the element to access");
        int d=sc.nextInt();
        int z=a/b;
        arr[d]=z;
        }
        catch (ArithmeticException e) {
            System.out.println(e.getMessage());
          }




    }
}
```

```
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;
  }
}
}
```