c: > Users > akki > Desktop > PROJECT WORK > transpose.java > Transpose > main(String[])

```java
/*Develop a Java program to find the transpose of a given matrix of order MXN.*/

import java.util.Scanner;
 class Transpose
{
    Run | Debug
    public static void main(String args[])
    {
    int i, j;
    System.out.println("Enter total rows: ");
    Scanner s = new Scanner(System.in);
    int row = s.nextInt();
    System.out.println("Enter total columns: ");
    int column = s.nextInt();
    int array[][] = new int[row][column];
    System.out.println("Enter the matrix:");
    for(i = 0; i < row; i++)
    {
        for(j = 0; j < column; j++)
            {
            array[i][j] = s.nextInt();
            }
    System.out.print("");
    }
    System.out.println("The matrix before Transpose is ");
    for(i = 0; i < row; i++)
        {
            for(j = 0; j < column; j++)
            {
            System.out.print(array[i][j]+" ");
            }
        System.out.println("");
        }
    System.out.println("The matrix after Transpose is ");
    for(i = 0; i < column; i++)
        {
            for(j = 0; j < row; j++)
            {
                System.out.print(array[j][i]+" ");
            }
```

```
17              {
18              array[i][j] = s.nextInt();
19              }
20      System.out.print();
21      }
22      System.out.println("The matrix before Transpose is ");
23      for(i = 0; i < row; i++)
24          {
25              for(j = 0; j < column; j++)
26              {
27              System.out.print(array[i][j]+" ");
28              }
29          System.out.println();
30          }
31      System.out.println("The matrix after Transpose is ");
32      for(i = 0; i < column; i++)
33          {
34              for(j = 0; j < row; j++)
35              {
36                  System.out.print(array[j][i]+" ");
37              }
38              System.out.println();
39          }
40      }
41  }
```

```
C:\Users\akki\Desktop\PROJECT WORK>javac transpose.java

C:\Users\akki\Desktop\PROJECT WORK>java Transpose
Enter total rows:
3
Enter total columns:
3
Enter the matrix:
12 13 14
16 17 18
21 22 23
The matrix before Transpose is
12 13 14
16 17 18
21 22 23
The matrix after Transpose is
12 16 21
13 17 22
14 18 23

C:\Users\akki\Desktop\PROJECT WORK>
```

c: > Users > akki > Desktop > PROJECT WORK > circle.java > CircleDemo > radius

```java
/*Develop a Java program which has the (only) class CircleDemo that has members-
radius, area and perimeter. Include methods to do the following.

a. accept the radius from the user
b. find the area of the circle
c. find the perimeter of the circle
d. Display all the details*/


import java.util.Scanner;
class CircleDemo
{
    double radius;
    double area;
    double perimeter;
    double pi=3.14;
    void accept()
    {
        System.out.println("Enter the radius of circle");
        Scanner ss= new Scanner(System.in);
        radius=ss.nextDouble();
    }
    void display()
    {
        area=pi*radius*radius;
        perimeter=2*pi*radius;
        System.out.println("The radius of circle:"+radius);
        System.out.println("The area of circle:"+area);
        System.out.println("The perimeter of circle:"+perimeter);
    }
    Run | Debug
    public static void main(String args[])
    {

        CircleDemo c=new CircleDemo();
        c.accept();
        c.display();

    }
}
```

```
C:\Users\akki\Desktop\PROJECT WORK>javac circle.java

C:\Users\akki\Desktop\PROJECT WORK>java CircleDemo
Enter the radius of circle
7.5
The radius of circle:7.5
The area of circle:176.625
The perimeter of circle:47.1

C:\Users\akki\Desktop\PROJECT WORK>
```

c: > Users > akki > Desktop > PROJECT WORK > actor.java > Actor > accept()

```java
/*Develop a Java program to create a class Actor with id, name, no_of_movies,
no_of_years_exp. Calculate the average_performance for each of the actor and print
the name of the actor with highest average.*/

import java.util.Scanner;
class Actor
{
    String name;
    String id;
    int no_of_movies;
    int no_of_years_exp;
    double avg;

    void accept()
    {
        Scanner xx=new Scanner(System.in);
        System.out.print("Enter the name of the actor:");
        name =xx.next();
        System.out.print("Enter the id:");
        id =xx.next();
        System.out.print("Enter the no. of movies:");
        no_of_movies =xx.nextInt();
        System.out.print("Enter years of experience:");
        no_of_years_exp =xx.nextInt();
    }
    void average()
    {
        avg = (no_of_movies/no_of_years_exp);
    }

}
class ActorMain
{
    Run | Debug
    public static void main(String ss[])
    {
        int n;
        Scanner xx = new Scanner(System.in);
        System.out.println("Enter the number of actors:");
        n =xx.nextInt();
```

```
}
class ActorMain
{
    Run | Debug
    public static void main(String ss[])
    {
        int n;
        Scanner xx = new Scanner(System.in);
        System.out.println("Enter the number of actors:");
        n =xx.nextInt();
        Actor ac[] = new Actor[n];
        for(int i=0;i<n;i++)
        {
            System.out.println("Enter details of actor"+(i+1));
            ac[i] = new Actor();
            ac[i].accept();
            ac[i].average();
        }
        double temp=0;
        String name2="0";
        for(int i=0;i<ac.length;i++)
        {
            if(ac[i].avg > temp)
            {
                temp=ac[i].avg;
                name2=ac[i].name;
            }
        }
        System.out.println("The name of the Actor with highest average "+temp+" is: " +name2);
    }
}
```

```
C:\Users\akki\Desktop\PROJECT WORK>javac actor.java

C:\Users\akki\Desktop\PROJECT WORK>java ActorMain
Enter the number of actors:
2
Enter details of actor1
Enter the name of the actor:Shuresh
Enter the id:27353
Enter the no. of movies:34
Enter years of experience:14
Enter details of actor2
Enter the name of the actor:Jimmy
Enter the id:83629
Enter the no. of movies:17
Enter years of experience:8
The name of the Actor with highest average 2.0 is: Shuresh

C:\Users\akki\Desktop\PROJECT WORK>
```

```java
/*Develop a Java program to accept the values of a double array through command line.
Display the sorted array.*/

class sorted
{
    Run | Debug
    public static void main(String sss[])
    {
        double[] arr=new double[sss.length];
        for(int i=0;i<sss.length;i++)
        {
            arr[i]=Double.parseDouble(sss[i]);
        }
        for (int i=0;i<sss.length;i++)
        {
            for (int j=0;j<arr.length;j++)
            {
                if(arr[i]>arr[j])
                {
                    double c=arr[i];
                    arr[i]=arr[j];
                    arr[j]=c;
                }
            }
        }
        for(int i=0;i<sss.length;i++)
        {
            System.out.println(arr[i]);
        }


    }
}

```

```
C:\Users\akki\Desktop\PROJECT WORK>javac cmd.java

C:\Users\akki\Desktop\PROJECT WORK>java sorted 34.2 45.6 17.9 20.3
45.6
34.2
20.3
17.9
```

```java
/*Design a Java program to accept a double array- Full. create two more arrays pos,
neg. Check every element of Full array and push the positive
numbers to pos array and negative numbers to neg. Count the number of
positives, negatives and zeros and display.*/

import java.util.Scanner;
class number
{
    Run | Debug
    public static void main(String args[])
    {
        int positive=0,negative=0,zero=0,i,n;
        double temp=0.0;
        Scanner ss=new Scanner(System.in);
        System.out.println("Enter the size of the array:");
        n=ss.nextInt();
        double[]full=new double[n];
        double[]pos=new double[n];
        double[]neg=new double[n];
        System.out.println("Enter the elements of the array:");
        for(i=0;i<n;i++)
        {
            full[i]=ss.nextInt();
        }
        System.out.println("array with positive numbers:");
        for(i=0;i<n;i++)
        {
            if(full[i]>0)
            {
                temp=full[i];
                pos[i]=temp;
                positive++;
                System.out.println(pos[i]);
            }
        }
        System.out.println("Number of positive numbers :"+positive);
        System.out.println("array with negative numbers:");
        for(i=0;i<n;i++)
        {
            if(full[i]<0)
```

```
        {
            if(full[i]>0)
            {
                temp=full[i];
                pos[i]=temp;
                positive++;
                System.out.println(pos[i]);
            }
        }
        System.out.println("Number of positive numbers :"+positive);
        System.out.println("array with negative numbers:");
        for(i=0;i<n;i++)
        {
            if(full[i]<0)
            {
                temp=full[i];
                neg[i]=temp;
                negative++;
                System.out.println(neg[i]);
            }
        }
        System.out.println("Number of negative numbers :"+negative);
        for(i=0;i<n;i++)
        {
            if(full[i]==0)
            {
                zero++;
            }

        }
        System.out.println("Number of Zeros :"+ zero);
    }
}
```

```
C:\Users\akki\Desktop\PROJECT WORK>javac number.java

C:\Users\akki\Desktop\PROJECT WORK>java number
Enter the size of the array:
5
Enter the elements of the array:
23
-6
0
12
-2
array with positive numbers:
23.0
12.0
Number of positive numbers :2
array with negative numbers:
-6.0
-2.0
Number of negative numbers :2
Number of Zeros :1

C:\Users\akki\Desktop\PROJECT WORK>
```

```java
/*Design a Java program to accept a string. Count and display the number ofvowels, consonants and spaces in the string*/

import java.util.Scanner;
Run | Debug
class Count
{
    public static void main(String args[])
    {
        String line;
        int vowels=0,consonants=0,spaces=0;
        Scanner xx=new Scanner(System.in);
        System.out.println("Enter the String");
        line=xx.nextLine();
        for(int i=0;i<line.length();i++)
        {
            if(line.charAt(i)=='a'||line.charAt(i)=='e'||line.charAt(i)=='i'||line.charAt(i)=='o'||line.charAt(i)=='u')
            {
                ++vowels;
            }
            else if(line.charAt(i)>='a'&&line.charAt(i)<='z')
            {
                ++consonants;
            }
            else if(line.charAt(i)==' ')
            {
                ++spaces;
            }

        }
        System.out.println("No. of Vowels:"+vowels);
        System.out.println("No. of consonants:"+consonants);
        System.out.println("No. of spaces:"+spaces);


    }
}
```

```
C:\Users\akki\Desktop\PROJECT WORK>javac countstring.java

C:\Users\akki\Desktop\PROJECT WORK>java Count
Enter the String
hello everyone
No. of Vowels:6
No. of consonants:7
No. of spaces:1

C:\Users\akki\Desktop\PROJECT WORK>
```