

```

import java.util.*;
class Matrix
{
    public static void main(String args[])
    {
        int m,n,i,j;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the value of rows and coloumns:");
        m = sc.nextInt();
        n = sc.nextInt();
        int matrix[][]= new int[m][n];
        for(i=0;i<m;i++)
        {
            for(j=0;j<n;j++)
            {
                System.out.println("enter the element:"+i + j);
                matrix[i][j]= sc.nextInt();
            }
        }
        System.out.println("Inputted matrix:\n");
        for(i=0;i<m;i++)
        {
            for(j=0;j<n;j++)
            {
                System.out.print(matrix[i][j]+"\\t");
            }
            System.out.println();
        }
        int transpose[][]= new int[n][m];
        for(i=0;i<m;i++)
        {
            for(j=0;j<n;j++)
            {
                transpose[j][i]=matrix[i][j] ;
            }
        }
        System.out.println("Transpose matrix:\\n");
        for(i=0;i<n;i++)
        {
            for(j=0;j<m;j++)
            {
                System.out.print(transpose[i][j]+"\\t");
            }
            System.out.println();
        }
    }
}

```

```
1  import java.util.Scanner;
2
3  public class CircleDemo {
4      double radius = 0, area = 0, perimeter = 0;
5      Scanner sc = new Scanner(System.in);
6      void setDetails(){
7          System.out.println("Enter the radius: ");
8          this.radius = sc.nextDouble();
9      }
10     void findPerimeter() { this.perimeter = 2 * Math.PI * radius; }
11     void findArea() { this.area = Math.PI * Math.pow(radius, 2); }
12
13     void getDetails(){
14         System.out.println("Radius: " + radius);
15         System.out.format("Perimeter: %.2f\n", perimeter);
16         System.out.format("Area: %.2f\n", area);
17     }
18
19     public static void main(String[] args) {
20         CircleDemo crDemo = new CircleDemo();
21         crDemo.setDetails();
22         crDemo.findPerimeter();
23         crDemo.findArea();
24         crDemo.getDetails();
25     }
26 }
```

```

class Actor {
    int id,no_of_movies,no_of_years_exp;
    String name;
    double average_performace;
    static double bestAvgPerformance = 0;
    static String bestActorName;

    Actor(int id,String name,int totalMovies,int totalYears){
        this.id=id;
        this.name=name;
        this.no_of_movies=totalMovies;
        this.no_of_years_exp=totalYears;
        calcPerf();
        if(this.average_performace > bestAvgPerformance){
            bestAvgPerformance = this.average_performace;
            bestActorName = this.name;
        }
    }

    void calcPerf(){
        average_performace = (no_of_movies/no_of_years_exp);
    }
}

public class ActorMain {
    public static void main(String[] args) {
        Actor a1 = new Actor(1,"Sallu Bhai",25,14);
        Actor a2 = new Actor(2,"Munna Bhai",420,69);
        Actor a3 = new Actor(3,"Guddu Pandit",50,53);
        System.out.println("Actor with best average performance: " + Actor.bestActorName);
    }
}

```

```
import java.util.Scanner;
```



```
public class CountString {
```

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

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

```
        System.out.println("Enter a string: ");
```

```
        String str = sc.nextLine();
```

```
        int v = 0, c = 0, s = 0;
```

```
        for(int i = 0; i < str.length(); i++){
```

```
            char ch = str.charAt(i);
```

```
            if(ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u' || ch == 'A' || ch == 'E' || ch == 'I' || ch == 'O' || ch == 'U'){
```

```
                v++;
```

```
            }else if(str.charAt(i) == ' '){
```

```
                s++;
```

```
            }else{
```

```
                c++;
```

```
            }
```

```
        }
```

```
        System.out.println("Number of vowels: " + v);
```

```
        System.out.println("Number of spaces: " + s);
```

```
        System.out.println("Number of consonants: " + c);
```

```
    }
```

```
}
```