

WEEK-6 — Extra Programs

```
1.) 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
                                columns: ");

        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<m; i++) {  
    for (j=0; j<n; j++) {  
        System.out.println(transpose[i][j]+" ");  
    }  
    System.out.println();  
}  
}
```

```
2.) import java.util.Scanner;
class CircleDemo {
    double radius;
    double area;
    double perimeter;
    double pi = 3.14;
    void getradius() {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the radius of the
                                circle: ");
        radius = sc.nextDouble();
    }
    void Calarea() {
        area = pi * radius * radius;
    }
    void Calperimeter() {
        perimeter = 2 * pi * radius;
    }
    void Display() {
        System.out.println("Radius of circle: " + radius);
        System.out.println("Area of circle: " + area);
        System.out.println("Perimeter of circle: "
                                + perimeter);
    }
}

class CircleDemoMain {
    public static void main(String args[]) {
        CircleDemo D1 = new CircleDemo();
        D1.getradius
```

```
D1.getradius();  
D1.Calradius();  
D1.Calperimeter();  
D1.Display();  
}
```

```
}
```



```
3.) import java.util.Scanner;
class Actor {
    int Id;
    String name;
    int no-of-movies;
    int no-of-years-exp;
    float avg;
    void getData() {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the Id: \nName: "
            + "\nNo. of \nNumber of movies: "
            + "\nNumber of years (experience): ");
        Id = sc.nextInt();
        name = sc.next();
        no-of-movies = sc.nextInt();
        no-of-years-exp = sc.nextInt();
    }
    float calavg() {
        avg = (no-of-movies / no-of-years-exp);
        return avg;
    }
    void Display() {
        System.out.println("Id: " + Id + "\nName: "
            + name + "\nNumber of movies: "
            + no-of-movies + "\nExperience in
            years: " + no-of-years-exp);
    }
}

class ActorMain {
    public static void main(String args[]) {
        Actor a1 = new Actor();
    }
}
```

```
Actor a2 = new Actor();  
a1. getdata();  
a2. getdata();  
a1. calavg();  
a2. calavg();  
if(a1. calavg() > a2. calavg()) {  
    a1. Display();  
}  
else {  
    a2. Display();  
}  
}
```

4.) import java.util.Arrays;
public class CmdArray {
 public static void main (String[] args) {
 Double arr[];
 int n=0;
 for (int i=0; i<args.length; i++) {
 n++;
 }
 arr = new Double [n];
 for (int i=0; i<args.length; i++) {
 arr[i] = Double.parseDouble (args[i]);
 }
 Arrays.sort (arr);
~~System.out.println~~
 System.out.format ("Double array after sort:");
 for (int i=0; i<arr.length; i++) {
 System.out.format (" %.2f ", arr[i]);
 }
 }
}