WEEK 6

/\*3. 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.\*;

class Actor

{

String id,name;

int no\_of\_movies,no\_of\_years\_exp;

float average;

void accept()

{

Scanner sc=new Scanner(System.in);

System.out.println("-----enter actor's details----- ");

System.out.println("enter id ");

id=sc.nextLine();

System.out.println("enter name ");

name=sc.nextLine();

System.out.println("enter no of movies done by actor");

no\_of\_movies=sc.nextInt();

System.out.println("enter no of years of experience");

no\_of\_years\_exp=sc.nextInt();

}

void cal()

{

average=(float)no\_of\_movies/(float)no\_of\_years\_exp;

}

void display()

{

System.out.println("-----actor's details----- ");

System.out.println("actor id :"+id);

System.out.println("actor name :"+name);

System.out.println("no of movies done by actor :"+no\_of\_movies);

System.out.println("no of years of experience of actor :"+no\_of\_years\_exp);

System.out.println("average performance of actor :"+average);

}

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

System.out.println("enter no of actors");

int n=sc.nextInt();

Actor []obj=new Actor[n];

float highest=0.0f;

String highest\_actor="";

for(int i=0;i<n;i++)

{

obj[i]=new Actor();

obj[i].accept();

obj[i].cal();

if(obj[i].average>highest)a

{

highest=obj[i].average;

highest\_actor=obj[i].name;

}

}

for(int i=0;i<n;i++)

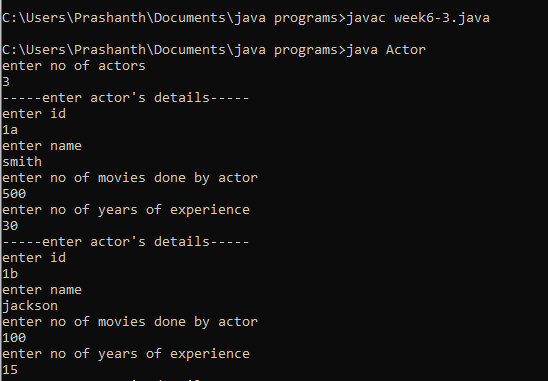
obj[i].display();

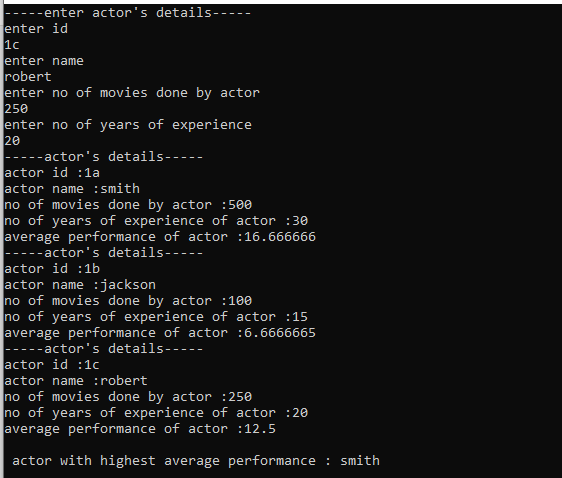
System.out.println();

System.out.println(" actor with highest average performance : "+highest\_actor);

}

}





/\*1. Develop a Java program to find the transpose of a given matrix of order MXN.\*/

import java.util.\*;

class transpose

{

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

System.out.println("enter rows and columns");

int r=sc.nextInt();

int c=sc.nextInt();

int a[][]=new int[r][c];

int b[][]=new int[c][r];

System.out.println("enter values ");

for(int i=0;i<r;i++)

{

for(int j=0;j<c;j++)

a[i][j]=sc.nextInt();

}

for(int i=0;i<r;i++)

{

for(int j=0;j<c;j++)

b[i][j]=a[j][i];

}

System.out.println("ORIGINAL MATRIX :");

for(int i=0;i<r;i++)

{

for(int j=0;j<c;j++)

System.out.print(a[i][j]+" ");

System.out.println();

}

System.out.println("TRANSPOSE MATRIX :");

for(int i=0;i<r;i++)

{

for(int j=0;j<c;j++)

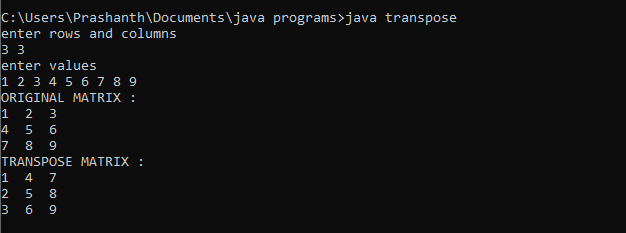
System.out.print(b[i][j]+" ");

System.out.println();

}

}

}



/\*2. 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.\*;

class CircleDemo

{

double radius,area,perimeter;

void accept()

{

Scanner sc=new Scanner(System.in);

System.out.println("enter radius of circle");

radius=sc.nextDouble();

}

void find\_area()

{

area=3.14\*radius\*radius;

}

void find\_perimeter()

{

perimeter=2\*3.14\*radius;

}

void display()

{

System.out.println("area of circle = "+area);

System.out.println("perimeter of circle = "+perimeter);

}

public static void main(String args[])

{

CircleDemo obj=new CircleDemo();

obj.accept();

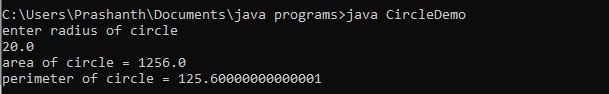
obj.find\_area();

obj.find\_perimeter();

obj.display();

}

}



/\*4. Develop a Java program to accept the values of a double array through command line.

Display the sorted array.\*/

class sorted

{

public static void main(String args[])

{

double a[]=new double[args.length];

for(int i=0;i<args.length;i++)

{

a[i]=Double.parseDouble(args[i]);

}

System.out.println("original array:");

for(int i=0;i<a.length;i++)

{

System.out.print(a[i]+" ");

}

System.out.println();

double temp=0.0;

for(int i=0;i<a.length;i++)

{

for(int j=0;j<a.length-1;j++)

{

if(a[j]>a[j+1])

{

temp=a[j];

a[j]=a[j+1];

a[j+1]=temp;

}

}

}

System.out.println("sorted array:");

for(int i=0;i<a.length;i++)

{

System.out.print(a[i]+" ");

}

}

}

