EXTRA PROBLEMS(20/10/2020)

QUESTION 1

```
/*develop java program to transpose of a given matrix m*n */

import java.util.Scanner;
public class transpose{
    public static void main(String ss[]){
        int i,j;
        System.out.println("ENTER NO OF ROWS AND COLUMNS");
        Scanner sc = new Scanner(System.in);
        int row = sc.nextInt();
        int column = sc.nextInt();
        int array[][] = new int[row][column];



        System.out.println("ENTER MATRIX");
        for(i = 0; i<row ; i++){

                for(j=0;j<column;j++){
                    array[i][j] =sc.nextInt();
                    System.out.print("");

            }
        }


        System.out.println("MATRIX ENETERED 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("MATRIX AFTER TRANSPOSE :");
        for(i=0;i<column;i++){
            for(j=0;j<row;j++){
                System.out.print(array[j][i]+" ");
            }
            System.out.println(" ");
        }



    }
}
```

QUESTION 2

```
/*Develop java program which has (only) class CircleDemo that has members -
radius,area,and perimeter.Include methods to do the following.
a. accept the radius from user
b. find the area of the circle
c. find the perimeter of the circle
d. display all the details*/

import java.util.Scanner;
public class circledemo{
    Scanner sc = new Scanner(System.in);
    double r;
    static double area,perimeter;

    void accept(){
        System.out.println("ENTER RADIUS OF CIRCLE");
        r = sc.nextDouble();
    }

      double a(){
         area = (3.14 * r * r);
         return area;
    }
     double p(){
        perimeter = (2 * 3.14 * r);
        return perimeter;
    }

    public static void main(String[] ss){

        Scanner sc = new Scanner(System.in);
        circledemo c1 = new circledemo();
        c1.accept();
        c1.a();
        c1.p();
        System.out.println("CALCULATED DETAILS");
        System.out.println("AREA :"+circledemo.area);
        System.out.println("PERIMETER :"+circledemo.perimeter);

    }
}
```

QUESTION 3

/*Develop a java program to create a class Actor with id, name,no_of_years,

no_of_movies.Calculate the average performance of each actor and print name of actor with highest average*/

```
import java.util.Scanner;
class actor{
   int noofmovies;
   int yearsofexp;
   String name;
   int id;
   double avg;
   static String highestavg;
   Scanner sc = new Scanner(System.in);

   void average(){
      avg = (noofmovies/yearsofexp);
   }

   void accept(){
      System.out.print("NAME :");
      name = sc.next();
      System.out.print("ID :");
      id = sc.nextInt();
      System.out.print("NO OF MOVIES :");
      noofmovies = sc.nextInt();
```

```
        System.out.print("YEARS OF EXPERIENCE :");
        yearsofexp = sc.nextInt();
    }


        void display(){
            System.out.println(name+"       *"+id+"      "+avg+"
"+noofmovies+"          "+yearsofexp);
        }

}


class actormain{
    public static void main(String ss[]){
        int n;
        Scanner sc = new Scanner(System.in);
        System.out.println("ENTER NO OF ACTORS DETAILS YOU WANT
TO ENTER");
        n = sc.nextInt();
        actor a1[] = new actor[n];

        for(int i=0;i<n;i++){
            System.out.println("--------------------------------");
```

```
        System.out.println("ENTER ACTOR :"+(i+1));
        a1[i] = new actor();
        a1[i].accept();
        a1[i].average();
    }

System.out.println("\n**********************************************************************");
    System.out.println(" S.NO  |  NAME  |  ID  |  AVERAGE  |  NO.MOVIES  |  YEARS ");

System.out.println("_____________________________________________________________");
    for(int i=0;i<n;i++){
        System.out.print("    "+(i+1)+")   ");
        a1[i].display();

System.out.println("_____________________________________________________________");
    }
```

```
        double l = 0;
        int index=0;
        for(int i=0;i<a1.length;i++){
            if(a1[i].avg > l){
                l = a1[i].avg;
                actor.highestavg = a1[i].name;
                index = i+1;
            }
        }



System.out.println("\n*********************************\n");
        System.out.println("HIGHEST AVERAGE AMOUNG ALL ACTOR
IS:");
        System.out.println("|"+index+"TH MEMBER IN TABLE
"+"\n|AND AVERAGE IS :"+l);
        System.out.println("|ACTOR NAME :"+actor.highestavg);

System.out.println("\n*********************************");




    }
```

}

QUESTION 4

```
class cmddouble{
    public static void main(String ss[]){
        double[] ssa = new double[ss.length];
        for(int i = 0;i<ss.length;i++){
            ssa[i] = Double.parseDouble(ss[i]);
        }
        for(int i=0;i<ss.length;i++){
            for(int j=i;j<ssa.length;j++){
                if(ssa[i]>ssa[j]){
                    double temp = ssa[i];
                    ssa[i] = ssa[j];
                    ssa[j] = temp;
                }

            }
        }

        for(int i=0;i<ss.length;i++){
            System.out.println(ssa[i] + " ");
        }


    }
}
```