WEEK 6 (19/10/2020)

Q.3) Actor experience

```java
/*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++){
```

```java
            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**********************************");



    }
}
```

Q.1) Transpose of a matrix

```java
/*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(" ");
        }



    }
}
```

Q.4) Command line input

```java
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] + " ");
        }


    }
}
```

Q.2) Circle Demo

```java
/*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;
    }
```

```java
    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);

    }
}
```