20/10/2020

LAB-4

(1) /* transpose of a matrix */

```
import java.util.scanner;
public static void main(String ss[]) {
    int i, j;
System.out.println("Enter no. of rows & columns");
scanner sc = new scanner(system.in),
int row = scnextInt;
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.println("");
    }
}

System.out.println("MATRIX ENTERED IS :");
 for(i=0; i<row; i++){
    for(j=0; j<column; j++){
       system.out.println(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.println(" array[i][j] + " _ ");
  }
  system.out.println(" ");
 }
}
}
```

(2) /* circledemo */

```
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 ac(){
    area = 3.14 * r * r;
    return area;
  }

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

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);
}
}
```

(3) /* Actor */

```
import java.util.Scanner;
class actor{
  int no.of movies;
  int years of exp;
   String name;
   int id;
   double avg;
   static string highestjava;
    Scanner sc = new Scanner(System.in);

   void average(){
     avg = (no.of movies / no.of years);
    }

   void accept(){
     System.out.println("name");
     name = sc.next();
     System.out.print("ID:");
     id = sc.nextInt();
```

```
System.out.println("No. of movies");
no.of movies = sc.nextInt();
System.out.println("Years of exp");
years of exp = sc.next();
}

void display(){
System.out.println("name +"..." + id"
                   "+avg"    "+ no of movies+"  "+
                   years of exp);
}
}

class actormain {
   public static void main(String ss[]) {
       int n;
   Scanner sc = next Scanner(System.in);
System.out.print("No.of actors");
 n = sc.nextInt();
actor a1[] = new actor[n];

for(int i=0; i<n; i++){
  System.out.println("Enter Actor :+(i+1)");
   a1[i] = new actor();
    a1[i].accept();
    a1[i].average();
}

System.out.println(" S.NO | Name | ID | AVG
                   | No.of Movies | Years");
```

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

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

System.out.println("Actor name :"+actor.
                    highestavg);
}
}
```

(4) /* double array sorting */ through cmdline.

```
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=1 ; 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] + "--");
    }
}
}
```