

Wk6extr1 - Notepad

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```
import java.util.Scanner;
public class Wk6extr1 {
    public static void main(String args[]){
        int i, j;
        System.out.println("Enter total rows and columns: ");
        Scanner s = new Scanner(System.in);
        int row = s.nextInt();
        int column = s.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] = s.nextInt();
                System.out.println(" ");
            }
        }
        System.out.println("The above matrix before Transpose 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("The above matrix after Transpose is ");
        for(i = 0; i < column; i++){
            for(j = 0; j < row; j++){
                System.out.print(array[j][i]+" ");
            }
            System.out.println(" ");
        }
    }
}
```

```
C:\Users\AKSHAY RASTOGI>cd desktop/java prog  
C:\Users\AKSHAY RASTOGI\Desktop\java prog>javac Wk6extr1.java  
C:\Users\AKSHAY RASTOGI\Desktop\java prog>java Wk6extr1  
Enter total rows and columns:  
2  
3  
Enter matrix:  
1  
2  
3  
4  
5  
6  
The above matrix before Transpose is  
1 2 3  
4 5 6  
The above matrix after Transpose is  
1 4  
2 5  
3 6  
C:\Users\AKSHAY RASTOGI\Desktop\java prog>
```

## Week 6

### Extra Programs

3) import java.util.Scanner;

public class Matrix1 {

public static void main(String args[]) {

int i, j;

System.out.println("Enter total rows and columns : ");

Scanner s = new Scanner(System.in);

int row = s.nextInt();

int column = s.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] = s.nextInt();

System.out.print(" ");

}

}

System.out.println("The above matrix before Transpose 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("The above matrix after Transpose is : ");

for (i = 0; i < column; j; i++) {

for (j = 0; j < row; j++) {

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

}

System.out.println(" ");

}

}

CircleDemo - Notepad

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```
import java.util.Scanner;
class CircleDemo{
    int r;
    double pi=3.14;
    void accept(){
        Scanner xx=new Scanner(System.in);
        System.out.println("Enter the radius of circle:");
        r=xx.nextInt();
    }
    void areacalc(){
        System.out.println("Area of circle is:"+ (pi*r*r));
    }
    void peri(){
        System.out.println("Perimeter of circle is:"+(2*pi*r));
    }
    void display(){
        System.out.println("Circle of radius "+r+" has area :" +(pi*r*r)+" with perimeter :" +(2*pi*r));
    }
    public static void main(String ss[]){
        Scanner xx=new Scanner(System.in);
        CircleDemo cle=new CircleDemo();
        cle.accept();
        cle.areacalc();
        cle.peri();
        System.out.println("<-----Details of circle are----->");
        cle.display();
    }
}
```

```
C:\Users\AKSHAY RASTOGI\Desktop\java prog>javac CircleDemo.java
C:\Users\AKSHAY RASTOGI\Desktop\java prog>java CircleDemo
Enter the radius of circle:
4
Area of circle is:50.24
Perimeter of circle is:25.12
<-----Details of circle are----->
Circle of radius 4 has area :50.24 with perimeter :25.12
C:\Users\AKSHAY RASTOGI\Desktop\java prog>
```

```
2) import java.util.Scanner;
class CircleDemo {
    int r;
    double pi = 3.14;
    void accept() {
        Scanner xx = new Scanner(System.in);
        System.out.println("Enter the radius of circle : ");
        r = xx.nextInt();
    }
    void areacalc() {
        System.out.println("Area of circle is : " + (pi * r * r));
    }
    void peri() {
        System.out.println("Perimeter of circle is : " + (2 * pi * r));
    }
    void display() {
        System.out.println("Circle of radius " + r + " has area : " + (pi * r * r)
            + " with perimeter : " + (2 * pi * r));
    }
}
public static void main(String ss[]) {
    Scanner xx = new Scanner(System.in);
    CircleDemo cle = new CircleDemo();
    cle.accept();
    cle.areacalc();
    cle.peri();
    System.out.println("----- Details of circle are -----");
    cle.display();
}
```

### Wk6extr3 - Notepad

```
File Edit Format View Help
import java.util.Scanner;
class actor{
    int no_of_movies,years_of_exp,id;
    String name;
    double avg;
    static String highestavg;
    Scanner sc = new Scanner(System.in);

    void average(){
        avg = (no_of_movies/years_of_exp);
    }
    void accept(){
        System.out.print("NAME :");
        name = sc.next();
        System.out.print("ID :");
        id = sc.nextInt();
        System.out.print("NO OF MOVIES :");
        no_of_movies = sc.nextInt();
        System.out.print("YEARS OF EXPERIENCE :");
        years_of_exp = sc.nextInt();
    }
}

class Wk6extr3{
    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();
        }
        double f = 0;
        for(int i=0;i<a1.length;i++){
            if(a1[i].avg > f){
                f = a1[i].avg;
            }
        }
        System.out.println("HIGHEST AVERAGE IS "+f);
    }
}
```

## Wk6extr3 - Notepad

```
File Edit Format View Help
System.out.print("NAME :");
name = sc.next();
System.out.print("ID :");
id = sc.nextInt();
System.out.print("NO OF MOVIES :");
no_of_movies = sc.nextInt();
System.out.print("YEARS OF EXPERIENCE :");
years_of_exp = sc.nextInt();
}
}

class Wk6extr3{
    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();
        }
        double f = 0;
        for(int i=0;i<a1.length;i++){
            if(a1[i].avg > f){
                f = a1[i].avg;
                actor.highestavg = a1[i].name;
            }
        }
        System.out.println("\n*****\n");
        System.out.println("HIGHEST AVERAGE IS :" +f);
        System.out.println("ACTOR NAME :" +actor.highestavg);
        System.out.println("\n*****");
    }
}
```



Type here to search



C:\Users\AKSHAY RASTOGI\Desktop\java prog>java Wk6extr3  
ENTER NO OF ACTORS DETAILS YOU WANT TO ENTER

3

<----->

ENTER ACTOR :1

NAME :akshay

ID :213

NO OF MOVIES :55

YEARS OF EXPERIENCE :20

<----->

ENTER ACTOR :2

NAME :amay

ID :213

NO OF MOVIES :33

YEARS OF EXPERIENCE :12

<----->

ENTER ACTOR :3

NAME :Uday

ID :211

NO OF MOVIES :39

YEARS OF EXPERIENCE :25

\*\*\*\*\*

HIGHEST AVERAGE IS :2.0

ACTOR NAME :akshay

```
3) import java.util.Scanner;  
class actor {  
    int no_of_movies, years_of_exp, id;  
    String name;  
    double avg;  
    static String highestavg;  
    Scanner sc = new Scanner(System.in);  
  
    void average() {  
        avg = (no_of_movies / years_of_exp);  
    }  
  
    void accept() {  
        System.out.print("NAME : ");  
        name = sc.next();  
        System.out.print("ID : ");  
        id = sc.nextInt();  
        System.out.print("No OF MOVIES : ");  
        no_of_movies = sc.nextInt();  
        System.out.print("YEARS of EXPERIENCE : ");  
        years_of_exp = sc.nextInt();  
    }  
  
    class Wk6extn3 {  
        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("<----->");  
                a1[i].accept();  
                a1[i].average();  
                if (a1[i].avg > highestavg)  
                    highestavg = a1[i].avg;  
            }  
            System.out.println("The highest average is " + highestavg);  
        }  
    }  
}
```

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

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

```
System.out.println("\n*****\n");  
System.out.println("Highest avg AGE IS : " + f);  
System.out.println("ACTOR NAME : " + actor.highestavg);  
System.out.println("\n*****\n");  
}
```

3