

transpose.java > transpose > main(String[])

```
1  import java.util.Scanner;
2
3  public class transpose {
4      Run | Debug
5      public static void main(String ss[]) {
6          int i, j;
7          System.out.println("ENTER NO OF ROWS AND COLUMNS");
8          Scanner sc = new Scanner(System.in);
9          int row = sc.nextInt();
10         int column = sc.nextInt();
11         int array[][] = new int[row][column];
12
13         System.out.println("ENTER MATRIX");
14         for (i = 0; i < row; i++) {
15             for (j = 0; j < column; j++) {
16                 System.out.println("enter element a[" + i + "][" + j + "]");
17
18                 array[i][j] = sc.nextInt();
19             }
20         }
21
22         System.out.println("MATRIX ENETERED IS :");
23         for (i = 0; i < row; i++) {
24             for (j = 0; j < column; j++) {
25                 System.out.print(array[i][j] + "\t");
26             }
27             System.out.println(" ");
28         }
29
30         System.out.println("MATRIX AFTER TRANSPOSE :");
31         for (i = 0; i < column; i++) {
```

```

transpose.java > transpose > main(String[])
13     for (i = 0; i < row; i++) {
14
15         for (j = 0; j < column; j++) {
16             System.out.println("enter element a[" + i + "][" + j + "]");
17
18             array[i][j] = sc.nextInt();
19
20         }
21     }
22
23     System.out.println("MATRIX ENETERED IS :");
24     for (i = 0; i < row; i++) {
25         for (j = 0; j < column; j++) {
26             System.out.print(array[i][j] + "\t");
27         }
28         System.out.println(" ");
29     }
30
31     System.out.println("MATRIX AFTER TRANSPOSE :");
32     for (i = 0; i < column; i++) {
33         for (j = 0; j < row; j++) {
34             System.out.print(array[j][i] + "\t");
35         }
36         System.out.println(" ");
37     }
38
39 }
40 }

```

Command Prompt

E:\jdk8\bin\ooj lab>javac transpose.java

E:\jdk8\bin\ooj lab>java transpose

ENTER NO OF ROWS AND COLUMNS

3

4

ENTER MATRIX

enter element a[0][0]

1

enter element a[0][1]

2

enter element a[0][2]

3

enter element a[0][3]

4

enter element a[1][0]

5

enter element a[1][1]

6

enter element a[1][2]

7

enter element a[1][3]

8

enter element a[2][0]

9

enter element a[2][1]

10

enter element a[2][2]

11

enter element a[2][3]

12



MATRIX ENTERED IS :

| | | | |
|---|----|----|----|
| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 |

MATRIX AFTER TRANSPOSE :

| | | |
|---|---|----|
| 1 | 5 | 9 |
| 2 | 6 | 10 |
| 3 | 7 | 11 |
| 4 | 8 | 12 |

E:\jdk8\bin\ooj lab>

circledemo.java >  circledemo >  main(String[])

```
1  import java.util.Scanner;
2
3  public class circledemo {
4      Scanner sc = new Scanner(System.in);
5      double r;
6      static double area, perimeter;
7
8      void accept() {
9          System.out.println("ENTER RADIUS OF CIRCLE");
10         r = sc.nextDouble();
11     }
12     void a() {
13         area = (3.14 * r * r);
14     }
15
16     void p() {
17         perimeter = (2 * 3.14 * r);
18     }
19
20     Run | Debug
21     public static void main(String[] ss) {
22
23         Scanner sc = new Scanner(System.in);
24         circledemo c1 = new circledemo();
25         c1.accept();
26         c1.a();
27         c1.p();
28         System.out.println("CALCULATED DETAILS");
29         System.out.println("AREA :" + circledemo.area);
30         System.out.println("PERIMETER :" + circledemo.perimeter);
31     }
```

```
E:\jdk8\bin\ooj lab>javac circledemo.java
```

```
E:\jdk8\bin\ooj lab>java circledemo
```

```
ENTER RADIUS OF CIRCLE
```

```
3
```

```
CALCULATED DETAILS
```

```
AREA :28.259999999999998
```

```
PERIMETER :18.84
```

```
E:\jdk8\bin\ooj lab>java circledemo
```

```
ENTER RADIUS OF CIRCLE
```

```
5
```

```
CALCULATED DETAILS
```

```
AREA :78.5
```

```
PERIMETER :31.400000000000002
```

actormain.java > actor > average()

```
1  import java.util.Scanner;
2
3  class actor {
4      int noofmovies;
5      int yearsofexp;
6      String name;
7      int id;
8      double avg;
9      static String highestavg;
10     Scanner sc = new Scanner(System.in);
11
12     void average() {
13         avg = (noofmovies / (yearsofexp+0.0));
14     }
15
16     void accept() {
17         System.out.print("NAME :");
18         name = sc.next();
19         System.out.print("ID :");
20         id = sc.nextInt();
21         System.out.print("NO OF MOVIES :");
22         noofmovies = sc.nextInt();
23         System.out.print("YEARS OF EXPERIENCE :");
24         yearsofexp = sc.nextInt();
25     }
26
27     void display() {
28         System.out.println(
29             "Name:"+name + "      " + "Id:" + id + "      " + "Avg:" + avg + "      " + "No of movies:" +
30             noofmovies + "      " + "Experience:" + yearsofexp);
31     }
32 }
```


actormain.java > actor > average()

```
noofmovies + " " + "Experience:" + yearsofexp);
```

```
}
```

```
}
```

```
class actormain {
```

Run | Debug

```
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;
```

actormain.java > actor > average()

```
52 System.out.println("_____");
53 for (int i = 0; i < n; i++) {
54     System.out.print("    " + (i + 1) + "    ");
55     a1[i].display();
56     System.out.println("_____");
57 }
58
59 double l = 0;
60 int index = 0;
61 for (int i = 0; i < a1.length; i++) {
62     if (a1[i].avg > l) {
63         l = a1[i].avg;
64         actor.highestavg = a1[i].name;
65         index = i + 1;
66     }
67 }
68
69 System.out.println("\n*****\n");
70 System.out.println("HIGHEST AVERAGE AMOUNG ALL ACTOR IS:");
71 System.out.println("|" + index + "TH MEMBER IN TABLE " + "\n|AND AVERAGE IS :" + l);
72 System.out.println("|ACTOR NAME :" + actor.highestavg);
73 System.out.println("\n*****");
74
75 }
76 }
```


CA% Command Prompt

E:\jdk8\bin\ooj lab>javac actormain.java

E:\jdk8\bin\ooj lab>java actormain

ENTER NO OF ACTORS DETAILS YOU WANT TO ENTER

3

ENTER ACTOR :1

NAME :aaaa

ID :123

NO OF MOVIES :5

YEARS OF EXPERIENCE :3

ENTER ACTOR :2

NAME :bbbb

ID :124

NO OF MOVIES :68

YEARS OF EXPERIENCE :47

ENTER ACTOR :3

NAME :cccc

ID :125

NO OF MOVIES :45

YEARS OF EXPERIENCE :30

| S.NO | NAME | ID | AVERAGE | NO.MOVIES | YEARS |
|------|------|----|---------|-----------|-------|
|------|------|----|---------|-----------|-------|

| | | | | | |
|----|-----------|--------|------------------------|-----------------|---------------|
| 1) | Name:aaaa | Id:123 | Avg:1.6666666666666667 | No of movies:5 | Experience:3 |
| 2) | Name:bbbb | Id:124 | Avg:1.446808510638298 | No of movies:68 | Experience:47 |
| 3) | Name:cccc | Id:125 | Avg:1.5 | No of movies:45 | Experience:30 |

HIGHEST AVERAGE AMOUNG ALL ACTOR IS:

|1TH MEMBER IN TABLE

|AND AVERAGE IS :1.6666666666666667

|ACTOR NAME :aaaa

CmdD.java > CmdD > main(String[])

```
1  class CmdD{
    Run | Debug
2  public static void main(String ss[]){
3      double[] ssa = new double[ss.length];
4      for(int i = 0;i<ss.length;i++){
5          ssa[i] = Double.parseDouble(ss[i]);
6      }
7      for(int i=0;i<ss.length;i++){
8          for(int j=i;j<ssa.length;j++){
9              if(ssa[i]>ssa[j]){
10                 double temp = ssa[i];
11                 ssa[i] = ssa[j];
12                 ssa[j] = temp;
13             }
14         }
15     }
16
17     for(int i=0;i<ss.length;i++){
18         System.out.println(ssa[i] + " ");
19     }
20
21 }
22
23
24
25 }
```

```
E:\jdk8\bin\ooj lab>javac CmdD.java
```

```
E:\jdk8\bin\ooj lab>java CmdD 12 34.5 1.3 5.7
```

```
1.3
```

```
5.7
```

```
12.0
```

```
34.5
```

```
E:\jdk8\bin\ooj lab>java CmdD 12 34.5 1.3 5.7 5.6 1.31 1.27 34.4
```

```
1.27
```

```
1.3
```

```
1.31
```

```
5.6
```

```
5.7
```

```
12.0
```

```
34.4
```

```
34.5
```