



TransposeMatrix.java

Saved

```
1 import java.util.Scanner;
2 public class MatrixTransposeExample2
3 {
4     public static void main(String args[])
5     {
6         int i, j;
7         System.out.println("Enter total rows and columns: ");
8         Scanner s = new Scanner(System.in);
9         int r = s.nextInt();
10        int c = s.nextInt();
11        int array[][] = new int[r][c];
12        System.out.println("Enter matrix:");
13        for(i = 0; i < r; i++)
14        {
15            for(j = 0; j < c; j++)
16            {
17                array[i][j] = s.nextInt();
18                System.out.print(" ");
19            }
20        }
21        System.out.println("Entered Matrix is ");
22        for(i = 0; i < r; i++)
23        {
24            for(j = 0; j < c; j++)
25            {
26                System.out.print(array[i][j]+" ");
27            }
28            System.out.println(" ");
29        }
30        System.out.println("The above matrix after Transpose is ");
31        for(i = 0; i < c; i++)
32        {
33            for(j = 0; j < r; j++)
34            {
35                System.out.print(array[j][i]+" ");
36            }
37            System.out.println(" ");
38        }
39    }
40 }
```

× Terminal



Enter total rows and columns:

3

3

Enter matrix:

2 3 4 5 6 7 8 9 10

Entered Matrix is

2 3 4

5 6 7

8 9 10

The above matrix after Transpose is

2 5 8

3 6 9

4 7 10

Process finished.



VowCons.java

Saved

```
1 import java.util.Scanner;
2 public class Count
3 {
4     public static void main(String[] args)
5     {
6         Scanner s=new Scanner(System.in);
7         System.out.println("Enter String:");
8         String str;
9         str=s.next();
10        int vcount = 0,ccount = 0;
11        str = str.toLowerCase();
12        for(int i = 0; i < str.length(); i++)
13        {
14            char ch = str.charAt(i);
15            if(ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u')
16                vcount++;
17            else if((ch >= 'a' && ch <= 'z'))
18                ccount++;
19        }
20        System.out.println("Number of Vowels: " + vcount);
21        System.out.println("Number of Consonants: " + ccount);
22    }
23 }
```

× Terminal



Enter String:

Zoology

Number of Vowels: 3

Number of Consonants: 4

Process finished.



```
1 import java.util.Scanner;
2 class Age
3 {
4     private
5     String n;
6     int yr,m;
7     public
8     Scanner s=new Scanner(System.in);
9     void get()
10    {
11        System.out.print("Enter Name:");
12        n=s.next();
13        System.out.print("Enter years:");
14        yr=s.nextInt();
15        System.out.print("Enter month(s):");
16        m=s.nextInt();
17    }
18    void compare(Age x)
19    {
20        if(yr<x.yr)
21            System.out.println(x.n+" is Elder than "+n);
22        else if(yr==x.yr && m<x.m)
23            System.out.println(x.n+" is Elder than "+n);
24        else
25            System.out.println(n+" is Elder than "+x.n);
26    }
27 }
28 class AgeMain
29 {
30     public static void main(String args[])
31     {
32         Scanner s=new Scanner(System.in);
33         Age a=new Age();
34         Age b=new Age();
35         a.get();
36         b.get();
37         a.compare(b);
38     }
39 }
```

× Terminal



```
Enter Name:max
Enter years:26
Enter month(s):5
Enter Name:pete
Enter years:26
Enter month(s):11
pete is Elder than max

Process finished.
```




```
1 import java.util.Scanner;
2 class Player
3 {
4     int id, no_matches_played;
5     int[] scores;
6     String name;
7     Player(String na, int i, int n, int[] s)
8     {
9         name = na;
10        id = i;
11        no_matches_played = n;
12        scores = s;
13    }
14    Player()
15    {
16        name=null;
17        id=0;
18        no_matches_played = 0;
19    }
20    double avg()
21    {
22        int score=0;
23        for(int i=0;i<no_matches_played; i++)
24            score += scores[i];
25        double avg_score = (score*1.0)/no_matches_played;
26        return avg_score;
27    }
28    void display()
29    {
30        System.out.println("Name: "+name);
31        System.out.println("I.D. : "+id);
32        System.out.println("No. of Matches played: "+no_matches_played);
33        System.out.print("Scores: ");
34        for(int i=0;i<no_matches_played;i++)
35            System.out.print(scores[i]+" ");
36    }
37}
38class player
39{
40    public static void main(String[] args)
41    {
42        Scanner sn = new Scanner(System.in);
43        System.out.println("Enter the name of player");
44        String na = sn.nextLine();
45        System.out.println("Enter the ID");
46        int id = sn.nextInt();
47        System.out.println("Enter the Number of matches played");
48        int n = sn.nextInt();
49        System.out.println("Enter the scores");
50        int[] s = new int[n];
51        for(int i =0;i<n;i++)
52            s[i] = sn.nextInt();
53        Player p1 = new Player(na, id, n, s);
54        double a1 = p1.avg();
55        na = sn.nextLine();
56        System.out.println("Enter the name of player");
57        na = sn.nextLine();
58        System.out.println("Enter the ID");
59        id = sn.nextInt();
60        System.out.println("Enter the Number of matches played");
61        n = sn.nextInt();
62        int[] si = new int[n];
63        System.out.println("Enter the scores");
64        for(int i =0;i<n;i++)
65            si[i] = sn.nextInt();
66        Player p2 = new Player(na, id, n, si);
67        double a2 = p2.avg();
68        if(a1>a2)
69            p1.display();
70        else
71            p2.display();
72    }
73}
```



Enter No. of Books:

2

Book No-1

Enter Book Name:Famous

Enter Author Name:Gyllenhaal

Enter Price:699

Enter No. of pages:436

Book No-2

Enter Book Name:North

Enter Author Name:Trippier

Enter Price:899

Enter No. of pages:1232

Details of Book 1,

Book Name=Famous

Author Name=Gyllenhaal

price=699.0

No. of Pages=436.0

Details of Book 2,

Book Name=North

Author Name=Trippier

price=899.0

No. of Pages=1232.0

Process finished.