



SUBMITTED BY - HIMANSHU (12102984), ASHWANI (12110667)

SECTION - K21PB

ROLL NO. - 27,28

TOPIC - FOOTBALL LEAGUE TABLE

SUBJECT - JAVA REPORT

SUBMITTED TO - PUNEET KUMAR

JAVA CODE

```
Football.java > Football
1  /*
2  BY                      : Himanshu & Ashwani
3  registration no.       : 12102984 & 12110667
4  Section                : K21PB
5  Roll no.              : 27          & 28
6  */
7
8
9
10
11 import java.util.*;
12 import java.lang.*;
13
14 class Football
15 {
16     Run | Debug
17     public static void main(String args[]) throws NullPointerException
18     {
19         int n,m,i,j,k;
20         System.out.print(s:"\n\n\n\n\n\n");
21         System.out.print("\t\t\t"+"FOOTBALL LEAGUE TABLE"+" \t\t");
22         System.out.print(s:"\n\n");
23         System.out.print("\t\t\t\t\t"+"- BY Ashwani & Himanshu");
24         int x=0;
25         Scanner sc=new Scanner(System.in);
26         System.out.println(x:"\n\n");
27         System.out.println(x:"Enter number of Teams:");
28         n=sc.nextInt();
29         String z[]=new String[n];
30         System.out.println(x:"\n\n");
31         System.out.println(x:"Enter names of Teams:");
32         for(i=0;i<n;i++)
33         {
34             z[i]=sc.next();
35         }
36     }
37 }
```

PROBLEMS 2 OUTPUT TERMINAL DEBUG CONSOLE

Enter number of Teams:

```
int n,m,i,j,k;
System.out.print(s:"\n\n\n\n\n");
System.out.print("\t\t\t"+"FOOTBALL LEAGUE TABLE"+ "\t\t");
System.out.print(s:"\n\n");
System.out.print("\t\t\t\t\t"+"- BY Ashwani & Himanshu");
int x=0;
Scanner sc=new Scanner(System.in);
System.out.println(x:"\n\n");
System.out.println(x:"Enter number of Teams:");
n=sc.nextInt();
String z[]=new String[n];
System.out.println(x:"\n\n");
System.out.println(x:"Enter names of Teams:");
for(i=0;i<n;i++)
{
    z[i]=sc.next();
}
System.out.println(x:"\n\n");
System.out.println(x:"Enter number of Matches:");
m=sc.nextInt();
int pt[]=new int[n];
int gf[]=new int[n];
int ga[]=new int[n];
int gd[]=new int[n];
int mt[]=new int[n];
String s[]=new String[n+n];
String a[][]=new String[m][4];
System.out.println(x:"\n\n");
System.out.println(x:"Enter details of Matches(Team1 Team2 T1goals T2goals)");
for(i=0;i<m;i++)
{
    for(j=0;j<4;j++)
    {
        a[i][j]=sc.next();
    }
}
```

```

49         for(j=0;j<4;j++)
50         {
51             a[i][j]=sc.next();
52         }
53         System.out.println();
54     }
55
56     for(i=0;i<m;i++)
57     {
58         for(j=0;j<2;j++)
59         {k=0;
60             int temp=0;
61             int index=0;
62             while(((i-k)>=0)&&(i>0))
63             {
64                 if(a[i][j].equals(s[i-k]))
65                 {temp=1;
66                     index=i-k;
67                 }
68                 k++;
69             }
70
71             if(temp==1)
72             {mt[index]+=1;
73                 gf[index]+=Integer.parseInt(a[i][(j+2)]);
74                 ga[index]+=Integer.parseInt(a[i][(3-j)]);
75                 if((Integer.parseInt(a[i][j+2]))>(Integer.parseInt(a[i][3-j])))
76                 pt[index]+=2;
77                 else if(Integer.parseInt(a[i][j+2])==Integer.parseInt(a[i][3-j]))
78                 pt[index]+=1;
79                 else
80                 {pt[index]+=0;}
81             }
82             else
83             {

```

```

80         {pt[index]+=0;}
81     }
82     else
83     {
84         s[x]=a[i][j];
85         mt[x]+=1;
86         gf[x]=Integer.parseInt(a[i][(j+2)]);
87         ga[x]=Integer.parseInt(a[i][(3-j)]);
88         if((Integer.parseInt(a[i][j+2]))>(Integer.parseInt(a[i][3-j])))
89             pt[x]=2;
90         else if(Integer.parseInt(a[i][j+2])==Integer.parseInt(a[i][3-j]))
91             pt[x]=1;
92         else
93             {pt[x]=0;}
94         x++;
95     }
96 }
97
98 int v=m;
99
100 int p[]=new int[n];
101
102
103 for(i=0;i<m;i++)
104 { gd[i]=gf[i]-ga[i];
105   p[i]=pt[i];
106 }
107
108
109 int g[]=new int[n];
110 int b;
111 int r[]=new int[n];
112
113
114 for(i=0;i<m;++i)

```

```

113
114     for(i=0;i<m;++i)
115     {
116         for(j=0;j<(m-i-1);++j)
117             if(p[j]<p[j+1])
118             {
119                 b=p[j];
120                 p[j]=p[j+1];
121                 p[j+1]=b;
122             }
123     }
124
125     int mp[]=new int[n];
126     int goalf[]=new int[n];
127     int goala[]=new int[n];
128     String tn[]=new String[n+n];
129
130     for(i=0;i<m;i++)
131     {
132         for(j=0;j<m;j++)
133             { if(pt[i]==p[j])
134                 {tn[j]=s[i];
135                     mp[j]=mt[i];
136                     goalf[j]=gf[i];
137                     goala[j]=ga[i];
138                     g[j]=gd[i];
139                 }
140             }
141     }
142
143
144     for(i=m;i<n;i++)
145     {
146         mp[i]=0;
147         goalf[i]=0;

```

```

146         mp[i]=0;
147         goalf[i]=0;
148         goala[i]=0;
149         g[i]=0;
150         p[i]=0;
151     }
152
153
154     for(i=0;i<n;i++)
155     {for(j=0;j<m;j++)
156         { if((z[i].equals(tn[j])))
157             {z[i]="0";
158             }
159         }
160     }
161 }
162
163 for(i=0;i<n;i++)
164 {
165     if(z[i]!="0")
166     {tn[v]=z[i];
167     v++;
168     }
169 }
170
171 for(i=0;i<n;i++)
172 {
173     if(p[i]==p[i+1])
174     { if(g[i]>g[i+1])
175         {r[i]=i+1;
176         r[i+1]=i+2;
177         i=i+1;
178         }
179     else if(g[i]<g[i+1])
180     {r[i+1]=i+1;
181     }

```

```

179         else if(g[i]<g[i+1])
180         {r[i+1]=i+1;
181           r[i]=i+2;
182           i=i+1;
183         }
184         else
185         {
186
187             try
188             {
189                 int d=tn[i].compareToIgnoreCase(tn[i+1]);
190                 if(d>0)
191                 { s[i]=tn[i];
192                   tn[i]=tn[i+1];
193                   tn[i+1]=s[i];
194                 }
195             }
196             catch(NullPointerException npe)
197             { npe.printStackTrace();
198             }
199             r[i]=i+1;
200             r[i+1]=i+1;
201             i=i+1;
202         }
203     }
204     else
205     {
206         r[i]=i+1;
207     }
208
209     System.out.print(s+"\n\n\n\n\n");
210     System.out.print("\t\t\t"+"Football Points Table"+" \t\t");
211     System.out.print(s+"\n\n");
212
213

```



```
196         catch(NullPointerException npe)
197         { npe.printStackTrace();
198         }
199         r[i]=i+1;
200         r[i+1]=i+1;
201         i=i+1;
202     }
203 }
204 else
205     r[i]=i+1;
206 }
207
208 System.out.print(s:"\n\n\n\n\n");
209 System.out.print("\t\t\t"+"Football Points Table"+" \t\t");
210 System.out.print(s:"\n\n");
211
212
213
214
215
216
217 System.out.println("Name"+" \t\t"+"Match"+" \t"+"GoalF"+" \t"+"GoalA"+" \t"+"GD"+" \t"+"Points"+" \t"+"Rank");
218
219 for(i=0;i<n;i++)
220 {
221     System.out.println(tn[i]+" \t\t"+mp[i]+" \t"+goalF[i]+" \t"+goalA[i]+" \t"+g[i]+" \t"+p[i]+" \t"+r[i]);
222 }
223
224 }
225 }
226
```

JAVA CODE OUTPUT

```
70
71 if(temp==1)

PROBLEMS 4 OUTPUT TERMINAL DEBUG CONSOLE

Enter number of Teams:
5

Enter names of Teams:
CSE
ECE
MEC
AGR
ARC

Enter number of Matches:
4

Enter details of Matches(Team1 Team2 T1goals T2goals)
CSE ECE 5 0

CSE MEC 4 1

CSE AGR 2 0

CSE ARC 3 0


Football Points Table

Name      Match  GoalF  GoalA  GD    Points  Rank
CSE       4      14     1      13     8        1
AGR       1       0      2      -2     0        2
AGR       1       0      2      -2     0        2
AGR       1       0      2      -2     0        5
ECE       0       0      0       0     0        4
PS C:\Users\Ashwani\OneDrive\Desktop\JAVA PROJECT SEM4>
```

IND
AUS
ENG
NZ
PAK

Enter number of Matches:

4

Enter details of Matches(Team1 Team2 T1goals T2goals)

IND AUS 1 0

IND ENG 2 0

IND NZ 1 0

IND PAK 2 0

Football Points Table

Name	Match	GoalF	GoalA	GD	Points	Rank
IND	4	6	0	6	8	1
NZ	1	0	1	-1	0	2
NZ	1	0	1	-1	0	2
NZ	1	0	1	-1	0	5
AUS	0	0	0	0	0	4

PS C:\Users\Ashwani\OneDrive\Desktop\JAVA PROJECT SEM4> █

FOOTBALL LEAGUE TABLE

- BY Ashwani & Himanshu

Enter number of Teams:

4

Enter names of Teams:

PURT

ARG

FRNC

US

Enter number of Matches:

3

Enter details of Matches(Team1 Team2 T1goals T2goals)

US PURT 0 1

US ARG 2 0

US FRNC 0 2

Football Points Table

Name	Match	GoalF	GoalA	GD	Points	Rank
PURT	1	1	0	1	2	1
PURT	1	1	0	1	2	1
ARG	1	0	2	-2	0	4
FRNC	0	0	0	0	0	3

FOOTBALL LEAGUE TABLE

- BY Ashwani & Himanshu

IND
AUS
ENG
NZ
PAK

Enter number of Matches:

4

Enter details of Matches(Team1 Team2 T1goals T2goals)

IND AUS 1 0

IND ENG 2 0

IND NZ 1 0

IND PAK 2 0

Football Points Table

Name	Match	GoalF	GoalA	GD	Points	Rank
IND	4	6	0	6	8	1
NZ	1	0	1	-1	0	2
NZ	1	0	1	-1	0	2
NZ	1	0	1	-1	0	5
AUS	0	0	0	0	0	4

PS C:\Users\Ashwani\OneDrive\Desktop\JAVA PROJECT SEM4> █

```
/*  
BY : Himanshu & Ashwani  
registration no. : 12102984 & 12110667  
Section : K21PB  
Roll no. : 27 & 28  
*/
```

```
import java.util.*;  
import java.lang.*;  
  
class Football  
{  
    public static void main(String args[]) throws NullPointerException  
    {  
        int n,m,i,j,k;  
        System.out.print("\n\n\n\n\n");  
        System.out.print("\t\t\t"+"FOOTBALL LEAGUE TABLE"+" \t\t");  
        System.out.print("\n\n");  
        System.out.print("\t\t\t\t\t"+"- BY Ashwani & Himanshu");  
        int x=0;  
        Scanner sc=new Scanner(System.in);  
        System.out.println("\n\n");  
        System.out.println("Enter number of Teams:");  
        n=sc.nextInt();  
        String z[]=new String[n];  
        System.out.println("\n\n");  
        System.out.println("Enter names of Teams:");  
        for(i=0;i<n;i++)  
        {  
            z[i]=sc.next();  
        }  
    }  
}
```

```

System.out.println("\n\n");
System.out.println("Enter number of Matches:");
m=sc.nextInt();
int pt[]=new int[n];
int gf[]=new int[n];
int ga[]=new int[n];
int gd[]=new int[n];
int mt[]=new int[n];
String s[]=new String[n+n];
String a[][]=new String[m][4];
System.out.println("\n\n");
System.out.println("Enter details of Matches(Team1 Team2 T1goals T2goals)");
for(i=0;i<m;i++)
{
    for(j=0;j<4;j++)
    {
        a[i][j]=sc.next();
    }
    System.out.println();
}

for(i=0;i<m;i++)
{
    for(j=0;j<2;j++)
    {k=0;
        int temp=0;
        int index=0;
        while(((i-k)>=0)&&(i>0))
        {
            if(a[i][j].equals(s[i-k]))
            {temp=1;
                index=i-k;
            }
            k++;
        }
    }
}

```

```

}

if(temp==1)
{mt[index]+=1;
  gf[index]+=Integer.parseInt(a[i][(j+2)]);
  ga[index]+=Integer.parseInt(a[i][(3-j)]);
  if((Integer.parseInt(a[i][j+2]))>(Integer.parseInt(a[i][3-j])))
    pt[index]+=2;
  else if(Integer.parseInt(a[i][j+2])==Integer.parseInt(a[i][3-j]))
    pt[index]+=1;
  else
    {pt[index]+=0;}
}
else
{
  s[x]=a[i][j];
  mt[x]+=1;
  gf[x]=Integer.parseInt(a[i][(j+2)]);
  ga[x]=Integer.parseInt(a[i][(3-j)]);
  if((Integer.parseInt(a[i][j+2]))>(Integer.parseInt(a[i][3-j])))
    pt[x]=2;
  else if(Integer.parseInt(a[i][j+2])==Integer.parseInt(a[i][3-j]))
    pt[x]=1;
  else
    {pt[x]=0;}
  x++;
}
}

}

int v=m;

int p[]=new int[n];

```



```
for(i=0;i<m;i++)
{
    gd[i]=gf[i]-ga[i];
    p[i]=pt[i];
}

int g[]=new int[n];
int b;
int r[]=new int[n];

for(i=0;i<m;++i)
{
    for(j=0;j<(m-i-1);++j)
        if(p[j]<p[j+1])
        {
            b=p[j];
            p[j]=p[j+1];
            p[j+1]=b;
        }
}

int mp[]=new int[n];
int goalf[]=new int[n];
int goala[]=new int[n];
String tn[]=new String[n+n];

for(i=0;i<m;i++)
```

```
{
```

```
    for(j=0;j<m;j++)  
    { if(pt[i]==p[j])  
        {tn[j]=s[i];  
          mp[j]=mt[i];  
          goalf[j]=gf[i];  
          goala[j]=ga[i];  
          g[j]=gd[i];  
        }  
    }  
}
```

```
for(i=m;i<n;i++)  
{  
    mp[i]=0;  
    goalf[i]=0;  
    goala[i]=0;  
    g[i]=0;  
    p[i]=0;  
}
```

```
for(i=0;i<n;i++)  
{for(j=0;j<m;j++)  
    { if((z[i].equals(tn[j])))  
        {z[i]="0";  
        }  
    }  
}
```

```
for(i=0;i<n;i++)
{
    if(z[i]!="0")
    {tn[v]=z[i];
      v++;
    }
}

for(i=0;i<n;i++)
{
    if(p[i]==p[i+1])
    { if(g[i]>g[i+1])
      {r[i]=i+1;
        r[i+1]=i+2;
        i=i+1;
      }
      else if(g[i]<g[i+1])
      {r[i+1]=i+1;
        r[i]=i+2;
        i=i+1;
      }
      else
      {

          try
          {
              int d=tn[i].compareToIgnoreCase(tn[i+1]);
```

```

if(d>0)
    {
        {
            s[i]=tn[i];
            tn[i]=tn[i+1];
            tn[i+1]=s[i];
        }
    }
    catch(NullPointerException npe)
    {
        npe.printStackTrace();
    }
    r[i]=i+1;
    r[i+1]=i+1;
    i=i+1;
}
}
else
    r[i]=i+1;
}

System.out.print("\n\n\n\n\n");
System.out.print("\t\t\t"+"Football Points Table"+" \t\t");
System.out.print("\n\n");
System.out.println("Name"+" \t\t"+"Match"+" \t"+"GoalF"+" \t"+"GoalA"+" \t"+"GD"+" \t"
+"Points"+" \t"+"Rank");

for(i=0;i<n;i++)
{
    System.out.println(tn[i]+" \t\t"+mp[i]+" \t"+"goalF[i]+" \t"+"goalA[i]+" \t"
    +g[i]+" \t"+"p[i]+" \t"+"r[i]);
}

}
}

```

THANK YOU