```c
#include <stdio.h>
struct course
{
char name[20];
} s[4][100];
void main()
{

int n,i,j,c[4]={0,0,0,0},choice;
char cn[4][10]={"IOT","JAVA","J2EE","DS"};
printf("Enter number of students:\n");
scanf("%d",&n);
printf("Enter student detals:\n");
for(i=0;i<n;i++)
{
printf("------------------------\n");
printf("Press code to select course:\n1 ) IOT\n2 ) ADVANCED JAVA\n3 ) J2EE\n4 ) DATA STRUCTURES\n");
scanf("%d",&choice);
if(choice<0||choice>4)
{
printf("INVALID CHOICE!");
continue;
}
printf("Enter name of student %d:\n",i+1);
scanf("%s",&s[choice-1][c[choice-1]].name);
c[choice-1]++;
}

disp:
for(i=0;i<4;i++)
{ if(c[i]>=0)
{
printf("LIST OF STUDENTS OF COURSE %s :\n",cn[i];
```

```c
30    for(i=0;i<4;i++)
31    { if(c[i]>=0)
32    {
33    printf("LIST OF STUDENTS OF COURSE %s :\n",cn[i]);
34    for(j=0;j<c[i];j++)
35    {
36    printf("%d) %s \n",j+1,s[i][j]);
37    }
38    }
39    }
40    for(i=0;i<4;i++)
41    { if(i==0){
42        if ((((c[0] > 4) || (c[0] == -1)) && ((c[1] > 4) || (c[1] == -1)) && ((c[2] > 4) || (c[2] == -1)) && ((c[3] > 4) |
      | (c[3] == -1)))
43        {
44            exit(0);
45        }
46    }
47    if(c[i]<4&&c[i]!=-1)
48    {
49    printf("Number of people less than 4 in course %s,please change the course:\n",cn[i]);
50    for(j=0;j<c[i];j++)
51    {
52    printf("Enter course code:\n");
53    scanf("%d",&choice);
54    if(choice==i+1){
55    printf("ENTER OTHER course!\n");
56    continue;
57    }
58    printf("Enter name:\n");
59    scanf("%s",&s[choice-1][c[choice-1]].name);
60    c[choice-1]++;
61    }
```

```c
          | (c[3] == -1)))
43        {
44            exit(0);
45        }
46    }
47    if(c[i]<4&&c[i]!=-1)
48    {
49    printf("Number of people less than 4 in course %s,please change the course:\n",cn[i]);
50    for(j=0;j<c[i];j++)
51    {
52    printf("Enter course code:\n");
53    scanf("%d",&choice);
54    if(choice==i+1){
55    printf("ENTER OTHER course!\n");
56    continue;
57    }
58    printf("Enter name:\n");
59    scanf("%s",&s[choice-1][c[choice-1]].name);
60    c[choice-1]++;
61    }
62    n=c[i];
63    c[i]=-1;
64    }
65    }
66
67    goto disp;
68    }
```

```
PS E:\jdk8\bin\ooj lab> cmd /c .\"week2e3.exe"
Enter number of students:
10
Enter student detals:
------------------------
Press code to select course:
1 ) IOT
2 ) ADVANCED JAVA
3 ) J2EE
4 ) DATA STRUCTURES
2
Enter name of student 1:
niru
------------------------
Press code to select course:
1 ) IOT
2 ) ADVANCED JAVA
3 ) J2EE
4 ) DATA STRUCTURES
3
Enter name of student 2:
mani
------------------------
Press code to select course:
1 ) IOT
2 ) ADVANCED JAVA
3 ) J2EE
4 ) DATA STRUCTURES
1
Enter name of student 3:
thor
------------------------
Press code to select course:
1 ) IOT
2 ) ADVANCED JAVA
3 ) J2EE
4 ) DATA STRUCTURES
```

```
Enter name of student 3:
thor
------------------------
Press code to select course:
1 ) IOT
2 ) ADVANCED JAVA
3 ) J2EE
4 ) DATA STRUCTURES
1
Enter name of student 4:
loki
------------------------
Press code to select course:
1 ) IOT
2 ) ADVANCED JAVA
3 ) J2EE
4 ) DATA STRUCTURES
1
Enter name of student 5:
odin
------------------------
Press code to select course:
1 ) IOT
2 ) ADVANCED JAVA
3 ) J2EE
4 ) DATA STRUCTURES
1
Enter name of student 6:
hela
------------------------
Press code to select course:
1 ) IOT
2 ) ADVANCED JAVA
3 ) J2EE
4 ) DATA STRUCTURES
4
Enter name of student 7:
```

```
-------------------------
Press code to select course:
1 ) IOT
2 ) ADVANCED JAVA
3 ) J2EE
4 ) DATA STRUCTURES
4
Enter name of student 7:
flash
-------------------------
Press code to select course:
1 ) IOT
2 ) ADVANCED JAVA
3 ) J2EE
4 ) DATA STRUCTURES
4
Enter name of student 8:
mike
-------------------------
Press code to select course:
1 ) IOT
2 ) ADVANCED JAVA
3 ) J2EE
4 ) DATA STRUCTURES
4
Enter name of student 9:
chuck
-------------------------
Press code to select course:
1 ) IOT
2 ) ADVANCED JAVA
3 ) J2EE
4 ) DATA STRUCTURES
4
Enter name of student 10:
django
LIST OF STUDENTS OF COURSE IOT :
```

```
TERMINAL    PROBLEMS    OUTPUT    DEBUG CONSOLE                                    1: C/C++ Compile Run  ∨    +  ⊓  🗑  ∨  ✕

LIST OF STUDENTS OF COURSE IOT :
1) thor
2) loki
3) odin
4) hela
LIST OF STUDENTS OF COURSE JAVA :
1) niru
LIST OF STUDENTS OF COURSE J2EE :
1) mani
LIST OF STUDENTS OF COURSE DS :
1) flash
2) mike
3) chuck
4) django
Number of people less than 4 in course JAVA,please change the course:
Enter course code:
1
Enter name:
niru
Number of people less than 4 in course J2EE,please change the course:
Enter course code:
4
Enter name:
mani
LIST OF STUDENTS OF COURSE IOT :
1) thor
2) loki
3) odin
4) hela
5) niru
LIST OF STUDENTS OF COURSE DS :
1) flash
2) mike
3) chuck
4) django
5) mani
PS E:\jdk8\bin\ooj lab> []
```