PROGRAM—7

```c
#include<stdio.h>

struct course
{
    char name[20];
};

int main()
{
    struct course s[3][100];
    int n,i,j,c[3]={0,0,0},choice;
    char cn[3][10]={"IOT","JAVA","DS"};
    printf("Enter number of students:\n");
    scanf("%d",&n);
    printf("Enter student details:\n");
    for(i=0;i<n;i++)
    {
        printf("----------------\n");
        printf("Press code to select course:\n1.INTERNET OF THINGS\n2.ADVANCED JAVA AND J2EE\n3.ADVANCED DATA STRUCTURES\n");
        scanf("%d",&choice);
        if(choice<0||choice>3)
        {
            printf("Invalid choice!\n");
            continue;
        }
        printf("Enter name of the student %d\n",i+1);
```

```c
scanf("%s",&s[choice-1][c[choice-1]].name);

c[choice-1]++;

}

disp:

for(i=0;i<3;i++)

{

  if(c[i]>=0)

  {

    printf("List of students of course %s:\n",cn[i]);

    for(j=0;j<c[i];j++)

    {

      printf("%d) %s \n",j+1,s[i][j].name);

    }

    printf("Number of students in the course %s is %d\n",cn[i],j);

  }

}


for(i=0;i<3;i++)

{

  if(c[i]<3&&c[i]!=-1)

  {

    printf("Number of people less than 3 in course %s,so the students in the course %s please change the course:\n",cn[i],cn[i]);

    for(j=0;j<c[i];j++)

    {

      printf("Enter course code:\n");
```

```c
        scanf("%d",&choice);

        if(choice==i+1){

            printf("Enter other course!\n");

            continue;

        }

        printf("Enter name:\n");

        scanf("%s",&s[choice-1][c[choice-1]].name);

        c[choice-1]++;


    }


    n=c[i];

    c[i]=-1;

    goto disp;

    }

}


return 0;

}
```

```
   2 has type 'char (*)[20]' [-Wformat=]
 Reading symbols from a.out...done.
 /usr/share/gdb/gdbinit: No such file or directory.
 (gdb)
 (gdb) run
 Starting program: /home/a.out
 Enter number of students:
 8
 Enter student details:
 -----------------
 Press code to select course:
 1.INTERNET OF THINGS
 2.ADVANCED JAVA AND J2EE
 3.ADVANCED DATA STRUCTURES
 3
 Enter name of the student 1
 advitha
 -----------------
 Press code to select course:
 1.INTERNET OF THINGS
 2.ADVANCED JAVA AND J2EE
 3.ADVANCED DATA STRUCTURES
 2
 Enter name of the student 2
 mini
 -----------------
 Press code to select course:
 1.INTERNET OF THINGS
```

```
 1.INTERNET OF THINGS
 2.ADVANCED JAVA AND J2EE
 3.ADVANCED DATA STRUCTURES
 1
 Enter name of the student 6
 ramya
 -----------------
 Press code to select course:
 1.INTERNET OF THINGS
 2.ADVANCED JAVA AND J2EE
 3.ADVANCED DATA STRUCTURES
 3
 Enter name of the student 7
 vaish
 -----------------
 Press code to select course:
 1.INTERNET OF THINGS
 2.ADVANCED JAVA AND J2EE
 3.ADVANCED DATA STRUCTURES
 1
 Enter name of the student 8
 rithu
 List of students of course IOT:
 1) pruthvi
 2) ramya
 3) rithu
 Number of students in the course IOT is 3
 List of students of course JAVA:
 1) mini
 2) kuss
 Number of students in the course JAVA is 2
```

```
 Number of students in the course IOT is 3
 List of students of course JAVA:
 1) mini
 2) kuss
 Number of students in the course JAVA is 2
 List of students of course DS:
 1) advitha
 2) niha
 3) vaish
 Number of students in the course DS is 3
 Number of people less than 3 in course JAVA,so the students in the course JAVA please change the course:
 Enter course code:
 2
 Enter other course!
 Enter course code:
 1
 Enter name:
 mini
 List of students of course IOT:
 1) pruthvi
 2) ramya
 3) rithu
 4) mini
 Number of students in the course IOT is 4
 List of students of course DS:
 1) advitha
 2) niha
 3) vaish
 Number of students in the course DS is 3
 [Inferior 1 (process 1528) exited normally]
 (gdb)
```