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 \n2. 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);
        scanf("%s",&s[choice-1][c[choice-1]].name);
        c[choice-1]++;
    }
```

```c
7) desp:
   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 on 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 on course %s,
                   So the students on the course %s please
                   change the course : \n", cn[i], cn[i]);
           for (j=0; j<c[i]; j++)
           {
               printf ("Enter the code :\n");
               scanf ("%d", &choice);
               if (choice == i+1)
               {
                   printf ("Enter other course!\n");
                   continue;
               }
```

```c
        printf ("Entu name :\n ");
        scanf ("%s", &s[choice-1]
          [c[choice -1]]. name);
            c[choice - 1]++;
        }
        n= c[i];
        c[i]=-1;
          goto disp;
        }
      }
      retuan 0;
    }
```