Q7

```
#include <stdio.h>
#include <conio.h>
 struct student
 {
  char name[60];
  int d;
 }
int main()
 {
  int n;
  printf("Enter the number of students \n");
  scanf("%d", &n);
  int i;
  struct students[n]
  printf("Enter the details of students \n");
  printf("Enter code 1 for Internet of things\n");
  printf("Enter code 2 for Advanced java\n");
  printf("Enter code 3 for Advanced data structure");
  for(i=0;i<n;i++)
  {
   printf("Enter the details of %d student:\n", i++);
   scanf("%s", s[i].name);
   scanf("%d", s[i].d);
  }
  int x;
  printf("Enter a subject code:\n");
  scanf("%d", &x);
```

```
printf("The name of the students who selected
        the subject you entered are \n");
    for (i=0; i<n; i++)
    {
      if (s[i].d == x)
      {
        printf("%s\n", s[i].name);
      }
    }
int if(count1=0, count2=0, count3=0;
    for (i=0; i<n; i++)
    {
      if (s[i].d==1)
        count1++;
      else if (s[i].d==2)
        count2++;
      else
        count3++;
    }
printf("The number of students who selected 1
        subjects are %d\n", count1);
printf("The number of students who selected 2
        subjects are %d\n", count2);
printf("The number of students who selected 3
        subject are %d\n", count3);
  if(count1<30)
  {
    printf("The subject 1 is removed\n");
    x=count1;
  }
```

```
else if (count2 <30)
{
 printf ("The subject 2 is removed \n");
  x= count2;
}
else if (count3<30)
 {
  printf ("The subject 3 is removed \n");
  x=count3;
  }
 printf ("The subject %d is removed \n", x);
  for (i=0 ; i<n; i++)
   {
     if (s[i].d==x)
       {
       printf ("Enter the subject code other than
                %d for %s ", x, s[i].name );
       scanf (" %d", s[i].d);
       }
  count1=0;
  count2=0;
  count3=0;
  for (i=0; i<n; i++)
  {
     if (s[i].d==1)
       {
         count1++;
       }
       else if (s[i].d==2)
         count2++;
       else
         count3++;
    }
```

```
printf("The number of students who selected
        student 1 are %d \n", count1);
printf("The number of students who selected
        Student 2 are %d\n", count2);
printf("The number of students who selected
        student 3 are %d\n", count3);
if (count1>0)
{
  printf("The students who selected subject1
      are ~~elected~~ :  \n");
   for (i=0; i<n; i++)
   {
     if (s[i].d==1)
     printf("%s\n", s[i].name);
 if (count2>0)
 {
 printf("The name of the students who selected
         subject 2 are \n");
   for (i=0; i<n; i++)
   {
     if (s[i].d==2)
       printf("%s\n", s[i].name);
   }
 }
 if (count3>0)
 {
   printf("The ~~name~~ students who selected subject3
           are :\n");
     for (i=0; i<n; i++)
     {
       if (s[i].d==3)
         printf("%s\n", s[i].name);
     }
 }
 return 0;
}
```