7. Write a C program to count the number of students registered for three elective
courses. Accept the names of n students, their choice of the elective (Say, the electives
courses offered are Internet of Things, Advanced Java and J2EE and Advanced Data
Structures).
Include the following operations:
1. Accept say x from the user. Display the names of the students who have
opted for elective x
2. Count and display the total number of students present in each elective.
3. If count is less than 30, inform that the course will not be floated and ask
the students who have opted the course to reselect their electives from the
other two. Count and display the counts again.
4. Display the name of the students in each elective.

```
#include<stdio.h>
char name[50][50];
int choice;
int choice_new;
int iot=0;
int advandj2ee=0;
int avdanceds=0;
int n,i;
void read()
{
printf("Enter the number of students\n");
scanf("%d",&n);
for(i=0;i<n;i++)
{
printf("Enter the name of student %d\n",(i+1));
scanf("%s",name[i]);
}
}
int main()
{
read();
printf("1:Internet Of Things\n2:Advanced Java And J2EE\n3:Advanced
DataStructures\n");
for(i=0;i<n;i++)
{
printf("Enter the choice of student %s\n",name[i]);
scanf(" %d",&choice);
```

```
read:
switch(choice)
{
case 1:
printf("student %s applied for internet of things is \n",name[i]);
iot++;
break;
case 2:
printf("student %s appllied for advanced java and J2EEE is
\n",name[i]);
advandj2ee++;
break;
case 3:
printf("student %s has applied for Advanced data structures
\n",name[i]);
avdanceds++;
break;
}
}
printf("Number of students applied for Internet of things is %d
\n",iot);
printf("Number of students applied for advanced java and J2EEE is %d
\n",advandj2ee);
printf("Number of students applied for data structures is
%d\n",avdanceds);
for(;;)
{
if(iot<=30)
{
printf("This Course cannot be floated please select the other from
the other two course\n");
printf("2:Advanced Java And J2EE\n3:Advanced DataStructures\n");
scanf(" %d",&choice_new);
break;
}
if(advandj2ee<=30)
{printf("This Course cannot be floated please select the other
course\n");
printf("1:Internet Of Things\n3:Data structures\n");
scanf(" %d",&choice_new);
break;
}
if(avdanceds<=30)
{
printf("This Course cannot be floated please select the other
course\n");
```

```
printf("1:Internet Of Things\n2:Advanced java and j2eee\n");
scanf(" %d",&choice_new);
break;
}
break;
}
switch(choice_new)
{
case 1:
iot++;
break;
case 2:
advandj2ee++;
break;
case 3:
avdanceds++;
break;
}
printf("*****************After modification*****************\n");
printf("Number of students applied for Internet of things is %d
\n",iot);
printf("Number of students applied for advanced java and J2EEE is %d
\n",advandj2ee);
printf("Number of students applied for data structures is
%d\n",avdanceds);
}
```