CODE:

```c
#include<stdio.h>
#include<string.h>
int iot;
int advanced_java;
int advanced_data;
typedef struct student
{
 char name[50];
 char course[50];

}std;

Int main()
{
struct student
{
 char name[50];
 char course[50];

}std;
char elective1[50]="Internet  Of Things";
 char elective2[50]="Advanced Java And J2EEE";
 char elective3[50]="Advanced DataStructures";
 printf("Courses  available  are \n \t 1:Internet  Of Things\n \t2:Advanced Java And
J2EEE\n \t3:Advanced DataStructures\n");
 int n;
 int choice;
 printf("Enter the number of students\n");
 scanf(" %d",&n);
 std s[n];
 for(int i=0;i<n;i++)  {  printf("Enter the name of student %d \n",(i+1));
 scanf(" %s", s[i].name);
 fflush(stdin);
 printf("Enter the elective of student %d \n",(i+1));
 printf("enter your choice\n");
 fflush(stdin);
 scanf(" %d",&choice);
 switch(choice)  {  case 1:
 strcpy(s[i].course,elective1);
 break;
  case 2:
 strcpy(s[i].course,elective2);
 break;
  case 3:
 strcpy(s[i].course,elective3);
break;
 }   fflush(stdin);
```

```c
      } for(int
i=0;i<n;i++) { if(strncmp(elective1,s[i].course,strlen(elective1))==0) { printf("Student
%s has selected for %s course\n",s[i].name,s[i].course);
 iot++;
 } if(strncmp(elective2,s[i].course,strlen(elective2))==0) { printf("Student %s has
selected for %s course\n",s[i].name,s[i].course);
 advanced_java++;
 } if(strncmp(elective3,s[i].course,strlen(elective3))==0) { printf("Student %s has
selected for %s course\n",s[i].name,s[i].course);
 advanced_data++;
 } } printf("*************************************\n");
 printf("Number of student applied for internet of things is %d\n",iot);
 printf("Number of students applied for Advanced java and J2EEE is
%d\n",advanced_java);
 printf("Number of student applied for Advanced DataStructures is
%d\n",advanced_data);
 if(iot<2) { for(int i=0;i<n;i++)
{ if(strncmp(s[i].course,elective1,strlen(elective1))==0) { printf(" %s please select
from the other two course this course cannot be floated\n",s[i].name);
 printf("2:Advanced Java And J2EEE\n3:Advanced DataStructures\n");
 printf("Enter your new choice\n");
 scanf(" %d",&choice);
 iot=0;
 switch(choice) { case 2:
 strcpy(s[i].course,elective2);
 advanced_java++;
 break;
  case 3:
 strcpy(s[i].course,elective3);
 advanced_data++;
 break;
 } } } } if(advanced_java<2) { for(int
i=0;i<n;i++) { if(strncmp(s[i].course,elective2,strlen(elective2))==0) {
printf(" %s please select from the other two course this course cannot be
floated\n",s[i].name);
 printf("1:Internet Of Things\n3:Advanced DataStructures\n");
 printf("Enter your new choice\n");
 scanf(" %d",&choice);
 advanced_java=0;
 switch(choice) { case 1:
 strcpy(s[i].course,elective1);
 iot++;
 break;
  case 3:
 strcpy(s[i].course,elective3);
 advanced_data++;
 break;
 } } } } if(advanced_data<2) { for(int
i=0;i<n;i++) { if(strncmp(s[i].course,elective3,strlen(elective3))==0) { printf(" %s
please select from the other two course this course cannot be floated\n",s[i].name);
```

```c
printf("1:Internet Of Things\n2:Advanced JAVA and J2EEE\n");
printf("Enter your new choice\n");
scanf(" %d",&choice);
advanced_data=0;
switch(choice) { case 1:
strcpy(s[i].course,elective1);
iot++;
break;
 case 2:
strcpy(s[i].course,elective2);
advanced_java++;
break;
} } } } printf("***********AfterReselection*************\n");
printf("Number of student applied for internet of things is %d\n",iot);
printf("Number of students applied for Advanced java and J2EEE is
%d\n",advanced_java);
printf("Number of student applied for Advanced DataStructures is
%d\n",advanced_data);
printf("****************************************\n");
for(int i=0;i<n;i++) { printf("%s has selected %s course\n",s[i].name,s[i].course);
} }
```

OUTPUT:

```
Courses available are
        1:Internet Of Things
        2:Advanced Java And J2EEE
        3:Advanced DataStructures
Enter the number of students
10
Enter the name of student 1
Abc
Enter the elective of student 1
enter your choice
1
Enter the name of student 2
xyz
Enter the elective of student 2
enter your choice
1
Enter the name of student 3
David
Enter the elective of student 3
enter your choice
1
Enter the name of student 4
kiran
Enter the elective of student 4
enter your choice
2
Enter the name of student 5
Chetan
Enter the elective of student 5
enter your choice
2
Enter the name of student 6
Ashish
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Chetan
Enter the elective of student 5
enter your choice
2
Enter the name of student 6
Ashish
Enter the elective of student 6
enter your choice
1
Enter the name of student 7
Bhuvan
Enter the elective of student 7
enter your choice
1
Enter the name of student 8
Rahul
Enter the elective of student 8
enter your choice
1
Enter the name of student 9
Lohit
Enter the elective of student 9
enter your choice
1
Enter the name of student 10
Sachin
Enter the elective of student 10
enter your choice
1
Student Abc has selected for Internet Of Things course
Student xyz has selected for Internet Of Things course
Student David has selected for Internet Of Things course
Student kiran has selected for Advanced Java And J2EEE course
```

```
Student Abc has selected for Internet Of Things course
Student xyz has selected for Internet Of Things course
Student David has selected for Internet Of Things course
Student kiran has selected for Advanced Java And J2EEE course
Student Chetan has selected for Advanced Java And J2EEE course
Student Ashish has selected for Internet Of Things course
Student Bhuvan has selected for Internet Of Things course
Student Rahul has selected for Internet Of Things course
Student Lohit has selected for Internet Of Things course
Student Sachin has selected for Internet Of Things course
**************************************
Number of student applied for internet of things is 8
Number of students applied for Advanced java and J2EEE is 2
Number of student applied for Advanced DataStructures is 0
************AfterReselection**************
Number of student applied for internet of things is 8
Number of students applied for Advanced java and J2EEE is 2
Number of student applied for Advanced DataStructures is 0
*********************************************
Abc has selected Internet Of Things course
xyz has selected Internet Of Things course
David has selected Internet Of Things course
kiran has selected Advanced Java And J2EEE course
Chetan has selected Advanced Java And J2EEE course
Ashish has selected Internet Of Things course
Bhuvan has selected Internet Of Things course
Rahul has selected Internet Of Things course
Lohit has selected Internet Of Things course
Sachin has selected Internet Of Things course


...Program finished with exit code 0
Press ENTER to exit console.
```