

```
1 #include<stdio.h>
2 #include<string.h>
3
4 struct getname {
5     char name[10];
6 };
7 int main() {
8     struct getname arr[100];
9     int n;
10    int cnt1 = 0,cnt2 = 0,cnt3 = 0;
11    int a[100];
12    printf("Students are required to fill in their details
13    and choice of electives\n");
14    printf("Choices for electives: \n");
15    printf("1.Internet of things\n2.Advanced Java\n3.Advance
16    DS\n");
17    int num;
18    printf("Enter the total number of students: ");
19    scanf("%d",&num);
20    for(int i=0;i<num;i++) {
21        printf("Enter the name of student : ");
22        scanf("%s",&arr[i].name);
23        printf("Enter your choice : ");
24        scanf("%d",&n);
25        a[i] = n;
26    }
27 }
```

masm-20200928T0...zip



```
1 a[i] = n;
2 if(a[i] == 1) {
3     cnt1++;
4 }
5 else if(a[i] == 2) {
6     cnt2++;
7 }
8 else if(a[i] == 3) {
9     cnt3++;
10 }
11
12 printf("Operation 1\n");
13 int x;
14 printf("Enter the choice of elective you want to get the
15 list for: ");
16 scanf("%d",&x);
17 for (int i = 0; i < num; i++)
18 {
19     if(a[i] == x) {
20         printf(">%s\n",arr[i].name);
21     }
22 }
23
24 printf("Operation 2\n");
25 if(cnt1<3) {
```

```
cnt1 = 0;
printf("All elective one students are required to chose
different elective.\n");
for(int i=0;i<num;i++) {
    if(a[i] == 1) {
        printf("%s Select from elective 2 or 3: ",arr[i]
.name);
        scanf("%d",&n);
        a[i] = n;
        if(n == 3)
            cnt3++;
        else if(n == 2)
            cnt2++;
    }
}
if(cnt2<3) {
    cnt2 = 0;
    printf("All elective two students are required to chose
different elective.\n");
    for(int i=0;i<num;i++) {
        if(a[i] == 2) {
            printf("%s Select from elective 1 or 3: ",arr[i]
.name);
            scanf("%d",&n);
            a[i] = n;
        }
    }
}
```

main.c

```
1      if(n == 1)
2          cnt1++;
3      else if(n == 3)
4          cnt3++;
5  }
6 }
7
8 if(cnt3<3) {
9     cnt3 = 0;
10    printf("All elective three students are required to chose
11        different elective.\n");
12    for(int i=0;i<num;i++) {
13        if(a[i] == 3) {
14            printf("%s Select from elective 2 or 1: ",arr[i].name)
15            ;
16            scanf("%d",&n);
17            a[i] = n;
18            if(n == 1)
19                cnt1++;
20            else if(n == 2)
21                cnt2++;
22        }
23    }
24
25    printf("Operation 3\n");
26    printf("Number of students in elective one : %d",cnt1);
```

pinkTallLightweig...



Run ►

main.c

```
95     printf("Number of students in elective two : %d",cnt2);
96     printf("Number of students in elective three : %d",cnt3);
97
98     printf("Operation 4\n");
99     printf("List of students in elective 1: \n");
100    for (int i = 0; i < num; i++)
101    {
102        if(a[i] == 1) {
103            printf(">%s\n",arr[i].name);
104        }
105    }
106
107    printf("List of students in elective 2: \n");
108    for (int i = 0; i < num; i++)
109    {
110        if(a[i] == 2) {
111            printf(">%s\n",arr[i].name);
112        }
113    }
114
115    printf("List of students in elective 3: \n");
116    for (int i = 0; i < num; i++)
117    {
118        if(a[i] == 3) {
119            printf(">%s\n",arr[i].name);
120        }
    }
```

nkfallRightweig...



Run ▶

main.c

```
119     printf( "%s\n", arr[i].name );
```

```
120 }
```

```
121 }
```

```
122 }
```

```
123 }
```

Students are required to fill in their details and choice of electives
Choices for electives:

1. Internet of things
 2. Advanced Java
 3. Advance DS
- Enter the total number of students: 7
- Enter the name of student : AA
- Enter your choice : 1
- Enter the name of student : BB
- Enter your choice : 2
- Enter the name of student : CC
- Enter your choice : 2
- Enter the name of student : DD
- Enter your choice : 2
- Enter the name of student : EE
- Enter your choice : 3
- Enter the name of student : FF
- Enter your choice : 3
- Enter the name of student : GG
- Enter your choice : 3
- Operation 1
- Enter the choice of elective you want to get the list for: 2
- >BB
- >CC
- >DD
- Operation 2
- All elective one students are required to chose different elective.
- AA Select from elective 2 or 3: 3
- Operation 3
- Number of students in elective one : Number of students in elective two : Number of students in elective three : 4
- Operation 4
- List of students in elective 1:



Number of students in elective one : Number of students

three : 4 Operation 4

List of students in elective 1:

List of students in elective 2:

>BB

>CC

>DD

List of students in elective 3:

>AA

>EE

>FF

>GG

