

```

9
10 #include <stdio.h>
11 int main()
12 {
13     int d[3],i=-1,j=-1,k=-1,e,p,x;
14     char a[30][30],b[30][30],c[30][30];
15     do{
16         printf("enter the elective number\n 1.Internet of things\n 2.advanced java\n 3.advanced data structures\n 4.stop\n ");
17         scanf("%d",&e);
18         printf("enter name\t");
19         if(e==1)
20         {
21             i++;
22             scanf("%s",a[i]);
23         }
24         if(e==2)
25         {
26             j++;
27             scanf("%s",b[j]);
28         }
29         if(e==3)
30         {
31             k++;
32             scanf("%s",c[k]);
33         }
34     }while(e!=4);
35
36     if(i<2)
37     {
38         printf("the below mentioned students chose any other elective 2 or 3\t");
39         for(p=0;p<=i;p++)
40         {
41             printf("%s",a[p]);
42             scanf("%d",&e);
43             if(e==2)
44             {
45                 printf("enter your name\t");
46                 j++;
47                 scanf("%s",b[j]);
48             }
49             if(e==3)
50             {
51                 printf("enter your name\t");
52                 k++;
53                 scanf("%s",c[k]);
54             }
55         }
56     }
57
58     if(j<2)
59     {
60         printf("the below mentioned students chose any other elective 1 or 3\t");
61         for(p=0;p<=j;p++)
62         {
63             printf("%s",b[p]);
64             scanf("%d",&e);
65             if(e==1)
66             {
67                 printf("enter your name\t");
68                 i++;
69                 scanf("%s",a[i]);
70             }
71             if(e==3)

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71         scanf("%s",a[i]);
72
73     }
74     if(e==3)
75     {
76         printf("enter your name\t");
77         k++;
78         scanf("%s",c[k]);
79     }
80 }
81 }
82 }
83 if(k<2)
84 {
85     printf("the below mentioned students chose any other elective 1 or 2\t");
86     for(p=0;p<=k;p++)
87     {
88         printf("%s",c[p]);
89         scanf("%d",&e);
90         if(e==1)
91         {
92             printf("enter your name\t");
93             i++;
94             scanf("%s",a[i]);
95         }
96         if(e==2)
97         {
98             printf("enter your name\t");
99             j++;
100             scanf("%s",b[j]);
101         }
102     }
103 }
104 }
105 }
106 if(i>=2)
107 {
108     printf("elective 1\n");
109     printf("number of students in elective 1= %d\n",i+1);
110     for(x=0;x<=i;x++)
111     {
112         printf("%s\n",a[x]);
113     }
114 }
115 }
116 if(j>=2)
117 {
118     printf("elective 2\n");
119     printf("number of students in elective 2= %d\n",j+1);
120     for(x=0;x<=j;x++)
121     {
122         printf("%s\n",b[x]);
123     }
124 }
125 }
126 if(k>=2)
127 {printf("elective 3\n");
128     printf("number of students in elective 3= %d\n",k+1);
129     for(x=0;x<=k;x++)
130     {
131         printf("%s\n",c[x]);
132     }
133 }
134 }
135 return 0;
136 }
137

```

```
enter the elective number
1.Internet of things
2.advanced java
3.advanced data structures
4.stop
1
enter name      a
enter the elective number
1.Internet of things
2.advanced java
3.advanced data structures
4.stop
1
enter name      s
enter the elective number
1.Internet of things
2.advanced java
3.advanced data structures
4.stop
2
enter name      d
enter the elective number
1.Internet of things
2.advanced java
3.advanced data structures
4.stop
2
enter name      f
enter the elective number
1.Internet of things
2.advanced java
3.advanced data structures
4.stop
2
enter name      g
enter the elective number
1.Internet of things
2.advanced java
3.advanced data structures
4.stop
2
enter name      j
enter the elective number
1.Internet of things
2.advanced java
3.advanced data structures
4.stop
3
enter name      k
enter the elective number
1.Internet of things
2.advanced java
```

```
3
enter name      k
enter the elective number
  1.Internet of things
  2.advanced java
  3.advanced data structures
  4.stop
3
enter name      l
enter the elective number
  1.Internet of things
  2.advanced java
  3.advanced data structures
  4.stop
3
enter name      r
enter the elective number
  1.Internet of things
  2.advanced java
  3.advanced data structures
  4.stop
3
enter name      y
enter the elective number
  1.Internet of things
  2.advanced java
  3.advanced data structures
  4.stop
4
enter name      the below mentioned students chose any other elective 2 or 3    a2
enter your name a
s3
enter your name s
elective 2
number of students in elective 2= 5
d
f
g
j
a
elective 3
number of students in elective 3= 5
k
l
r
y
s
```

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