```c
#include <stdio.h>
int main()
{
    int d[3],i=-1,j=-1,k=-1,e,p,x;
    char a[30][30],b[30][30],c[30][30];
    do{
        printf("enter the elective number\n 1.Internet of things\n 2.advanced java\n 3.advanced data structures\n 4.stop\n ");
        scanf("%d",&e);
        printf("enter name\t");
        if(e==1)
        {
        i++;
        scanf("%s",a[i]);
        }
        if(e==2)
        {
        j++;
        scanf("%s",b[j]);
        }
        if(e==3)
        {
        k++;
        scanf("%s",c[k]);
        }

       }while(e!=4);

    if(i<2)
    {
        printf("the below mentioned students chose any other elective 2 or 3\t");
        for(p=0;p<=i;p++)
        {
            printf("%s",a[p]);
            scanf("%d",&e);
            if(e==2)
            {
                printf("enter your name\t");
                j++;
                scanf("%s",b[j]);

            }
            if(e==3)
            {
                printf("enter your name\t");
                k++;
                scanf("%s",c[k]);

            }
        }
    }
        if(j<2)
    {
        printf("the below mentioned students chose any other elective 1 or 3\t");
        for(p=0;p<=j;p++)
        {
            printf("%s",b[p]);
            scanf("%d",&e);
            if(e==1)
            {
                printf("enter your name\t");
                 i++;
                scanf("%s",a[i]);

            }
            if(e==3)
```

```
                scanf("%s",a[i]);

            }
            if(e==3)
            {
                printf("enter your name\t");
                k++;
                scanf("%s",c[k]);

            }
        }
    }
        if(k<2)
    {
        printf("the below mentioned students chose any other elective 1 or 2\t");
        for(p=0;p<=k;p++)
        {
            printf("%s",c[p]);
            scanf("%d",&e);
            if(e==1)
            {
                printf("enter your name\t");
                i++;
                scanf("%s",a[i]);

            }
            if(e==2)
            {
                printf("enter your name\t");
                j++;
                scanf("%s",b[j]);

            }
        }
    }
    if(i>=2)
    {
    printf("elective 1\n");
    printf("number of students in elective 1= %d\n",i+1);
    for(x=0;x<=i;x++)
    {
        printf("%s\n",a[x]);

    }
    }
    if(j>=2)
    {
    printf("elective 2\n");
    printf("number of students in elective 2= %d\n",j+1);
    for(x=0;x<=j;x++)
    {
        printf("%s\n",b[x]);

    }
    }
    if(k>=2)
    {printf("elective 3\n");
    printf("number of students in elective 3= %d\n",k+1);
    for(x=0;x<=k;x++)
    {
        printf("%s\n",c[x]);

    }
    }
    return 0;
}

```

```
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
```

```
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.
```