

```

⑦ #include <stdio.h>
struct student
{
    char name[60];
    int choice, choice1;
} st[60];

void main()
{
    int i, n;
    int c1 = 0, c2 = 0, c3 = 0;
    printf("Enter no. of students \n");
    scanf("%d", &n);
    for (i = 0; i < n; i++)
    {
        printf("Enter name of student: \n");
        scanf("%s", st[i].name);
        printf("Following are electives: \n");
        printf("1. IOT 2. Advanced Java & J2ee  
3. Data structures adv. \n");
        printf("\n Please Select Choice above: \n");
        scanf("%d", &st[i].choice);
        if (st[i].choice == 1)
            c1++;
        else if (st[i].choice == 2)
            c2++;
        else if (st[i].choice == 3)
            c3++;
        else
            printf("\n Invalid Option");
    }

    printf("\n Total no. of students in IOT: %d \n", c1);
    printf("\n Total Total no of student in Advanced  
Java & J2ee are: %d \n", c2);
}

```



```
printf ("Total no. of students optng in  
Advanced Data Structures : %.d\n", c3);  
if (c1 || c2 || c3 < 30)
```

```
{  
printf ("No. of students are less than 30 in this  
course, so please select other 2 courses\n");  
for (i=0; i<n; i++)
```

```
{  
printf ("Select new 2 courses : \n");  
printf ("1. IoT, 2. Advanced Java, 3. Advanced Data Structures");
```

```
scanf (".d", st[i].choice);  
if (st[i].choice == 1)
```

```
c1++;  
else if (st[i].choice == 2)
```

```
c2++;  
else if (st[i].choice == 3)
```

```
c3++;  
else  
printf ("Invalid Input");
```

```
}  
printf ("\n The total no. of students in IoT  
: %.d\n", c1);
```

```
printf ("The total no. of students in Advanced  
Java & JSP are : %.d\n", c2);
```

```
printf ("The total no. of students for Advanced  
Data Structures : %.d\n", c3);
```

```
}  
printf ("Students in Internet of Things\n");  
for (int j=0; j<n; j++)
```

```
{  
if (st[j].choice == 1)
```

```
printf ("%s\n", st[j].name);
```

```
}
```

```
printf ("Students in advanced java & J2ee: \n");  
for (int j=0; j<n; j++)
```

```
{
```

```
if (st[j].choice == 2)
```

```
printf ("%s\n", st[j].name);
```

```
}
```

```
printf ("Students in Advanced Data Structures: \n");  
for (int j=0; j<n; j++)
```

```
{
```

```
if (st[j].choice == 3)
```

```
printf ("%s\n", st[j].name);
```

```
}
```

```
}
```