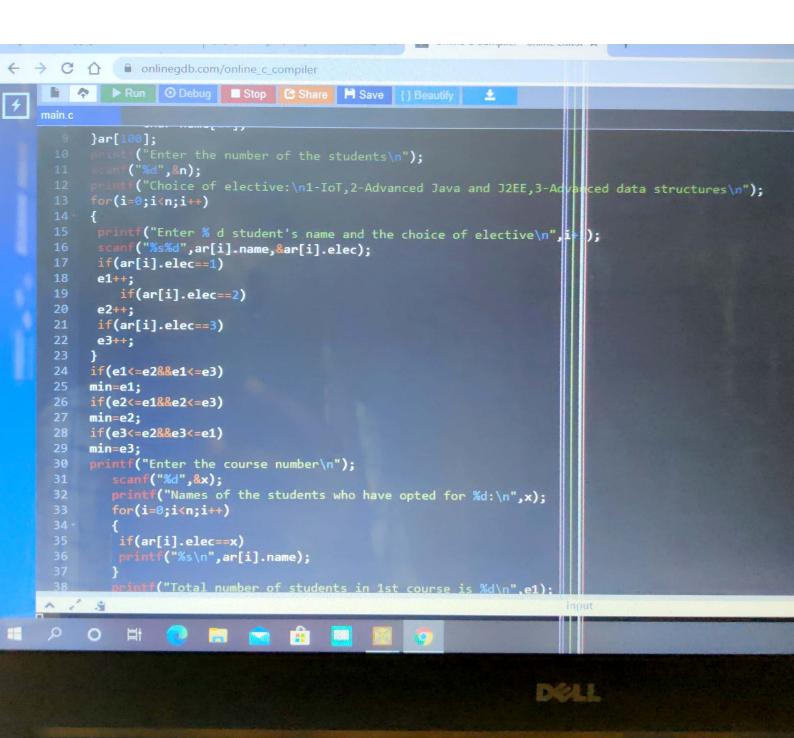
```
Rajeshwali
                                      1BM19CS031
 # include < stdio. h>
  int main ()
 int n, i, e1=0, e 2=0, e3=0, x, p, min, 1=0;
 struct student
  4
  int dec;
 char name [20];
  3 ar [100];
 prints (" Enter the number of the students In");
 scanf (" /d", (n);
print[ (" choice of elective: \n1-10T, 2-Advanced Java and
 J2EE, 3 - Advanced data Skrictures (n")
tor (1=0;1 <n; 1++)
 points (" enter 1.d students' name and the choice of
 elutare (n', i+1);
Scanf ("1.57-d", ar [i] name, con [i]. elec)
if ( as [i]. elec == 1)
  e1t+;
 if (ar [i]. dec = = 2)
 e2+t;
 if ( ax [; ]. ele c = = 3)
 C3+ +;
 il(e1 <=e2 46e1 <=e3)
 min=e1;
 if (e2 <= e1 & &e2 <= e3)
  min = e 2;
  if(e3<=e2 /fe3<=e1)
  min = e2;
   it (e3<=e2 44 e3<=e1)
  min = e 3'
  Printy (" enter the course number (n")"
 seary (" . I.d", (x).
```

```
Venty ( "Names of students who have opted for i'd; \n", x);
for (i= o; i<n; itt)
if (arti], elec== 2)
 Paint ("/s/n" as [i]. name)
Print [" Total no of students in 1st course is /d \n", e 1).
Prints ("Total no of students in ond course to 1-d \n", e2).
lung ("Total no of students in 3rd course is 1-d \n" e3).
if (e1 < 3 dd e2>=3 & se3>=3)
leint (" Course I will not be floated, Please select from the
 other & courses \n");
  P=17
  1=1:
 if (e2<3 &le1>=3 &fe3>=3)
Print ( "Course 2 will not be flooded. Please select from the
 other & comeses (n");
   P=2;
 it (e3<3 ble 1>= 3 fsc2>= 3)
 Printy ("Course 3 will not be floated. Please select
 from the other 2 courses \n");
   P=3
    1=1;
  if (1==0)
    if (min = = 01)
```

```
hird ["Please select from course 2 and 3 \n");
  1=1;
de if (min==e2)
 pint ("Please delect from Course land 3\n");
1=2;
 3 elx $ ( min == e3)
 benty ("Please select from course I and I \n");
 1=3%
3
if (p==1)
 for (i=0; , <n; i++)
 if (as [i] elec=-1)
 Print [" lider a différent course. Name: 1.5 \n", as [; ]-name).
 many (" Id", las [i]. elec)
 else if (p== 2)
 for (1=0; 1<n; 1++)
  "f (ar (i).elec == 2)
  land (" Entre a different course. Name: v.s \n", artiJ. name).
  scanf ("I.d", bas[i]. elec).
   333
  alse 4(P== 3)
  fa (i=o; icn; i+t)
```

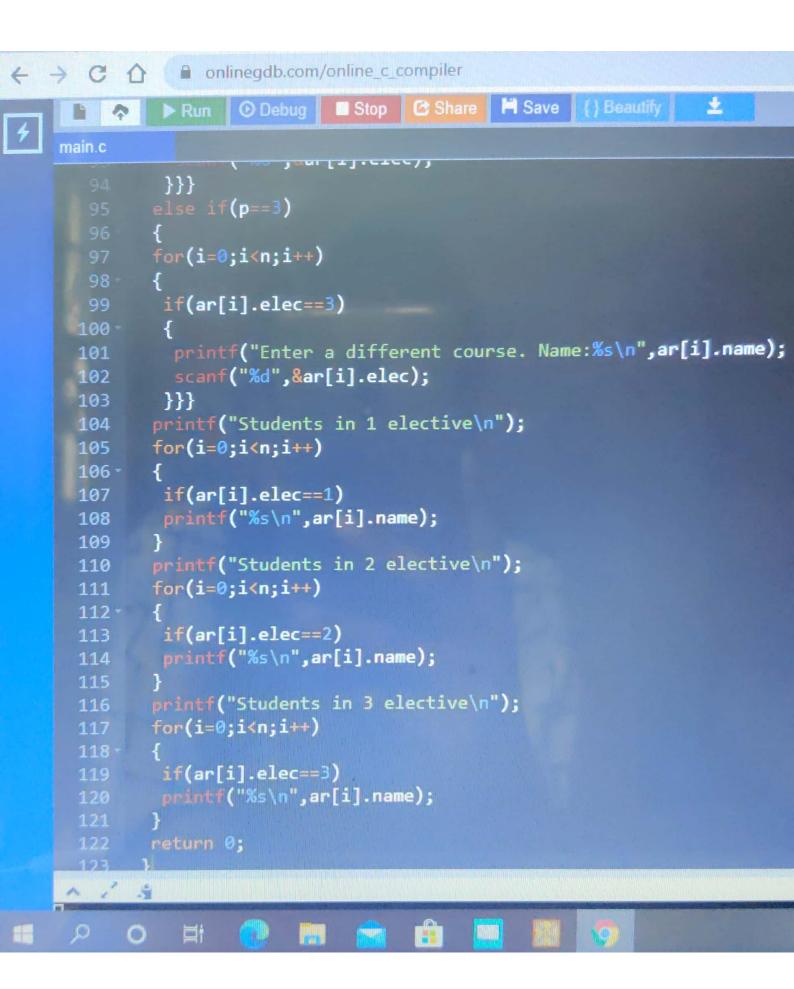
```
if [ or [i] · elec = 3)
Provide ["Enter a different course. Name: 7.3 m", as [i]. name),
sianf ("1.d", fas[i]. dec);
Runt (" Atudents in I clertine \n").
383
for (i=0; Kn; it+)
of Harlij. elec==1)
printy (" 1.5 \n", as[i]. name);
 prints ("Students in 2 elective In")
 for (i=0; i<n; i++)
 if (or[i]. elec=22)
 perof ("1-5/n", ar [i]. name)-
 peruly ("students in 3 electre \n")
 for (i= 0; i<n; i++)
  if (ar [i]- elec == 3)
   pring (11 1.5 \n", as [i]. name);
  roturn 0;
```

```
Run O Debug Stop C Share Save {} Beautify
      int main()
       int n,i, e1=0, e2=0, e3=0, x, p,min,l=0; struct student
        int elec;
               char name[20];
       }ar[100];
      printf("Enter the number of the students\n");
scanf("%d",&n);
printf("Choice of elective:\n1-IoT,2-Advanced Java and J2EE,3-Advanced data structures\n");
for(i=0;i<n;i++)</pre>
       printf("Enter % d student's name and the choice of elective\n", i+ );
         scanf("%s%d",ar[i].name,&ar[i].elec);
        if(ar[i].elec==1)
        e1++;
           if(ar[i].elec==2)
20
21
        if(ar[i].elec==3)
        e3++;
      if(e1<=e2&&e1<=e3)
      min=e1;
if(e2<=e1&&e2<=e3)
      min=e2;
      if(e3<=e2&&e3<=e1)
      min=e3;
           tf("Enter the course number\n");
0
```



```
a onlinegdb.com/online_c_compiler
        "Total number of students in 1st course is %d\n",e1);
"Total number of students in 2nd course is %d\n",e2);
                ("Total number of students in 3rd course is <code>%d\n",e3);</code>
           (e1<3&&e2>=3&&e3>=3)
             ("Course 1 will not be floated. Plaese select from the other 2 courses\n");
      p=1;
      1=1;
     if(e2<3&&e1>=3&&e3>=3)
      printf("Course 2 will not be floated. Plaese select from the other 2 courses\n");
50
51
52
      1=1;
53
     if(e3<3&&e1>=3&&e2>=3)
      printf("Course 3 will not be floated. Plaese select from the other 2 courses\n");
      p=3;
      1=1;
     if(1==0)
      if(min==e1)
       printf("Please select from course 2 and 3\n");
       p=1;
         else if(min==e2)
     0
          甘
```

```
← → C ↑ a onlinegdb.com/online_c_compiler
                   土
    main.c
               else if(min==e2)
                ntf("Please select from course 1 and 3\n");
            p=2;
      70
           else if(min==e3)
      71
      72
      73
            printf("Please select from course 1 and 2\n");
      74
             p=3;
      75
      76
           if(p==1)
      77
      78
            for(i=0;i<n;i++)
      79
      80 *
             if(ar[i].elec==1)
      81
      82 *
              printf("Enter a different course. Name:%s\n",ar[i].name);
      83
              scanf("%d",&ar[i].elec);
      84
             }}}
      85
            else if(p==2)
      86
      87 *
            for(i=0;i<n;i++)
      88
      89
             if(ar[i].elec==2)
      91
              printf("Enter a different course. Name:%s\n",ar[i].name);
      92
              scanf("%d",&ar[i].elec);
             }}}
           3
                片
     O
           O
```



```
onlinegdb.com/online_c_compiler
                 土
          Run
main.c
            if(p==3)
        for(i=0;i<n;i++)
Choice of elective:
1-IoT, 2-Advanced Java and J2EE, 3-Advanced data structures
Enter 1 student's name and the choice of elective
Lasya
Enter 2 student's name and the choice of elective
Abhi
Enter the course number
356
Names of the students who have opted for 356:
Total number of students in 1st course is 1
Total number of students in 2nd course is 1
Total number of students in 3rd course is 0
Please select from course 1 and 2
Students in 1 elective
Abhi
Students in 2 elective
Lasya
Students in 3 elective
 ... Program finished with exit code 0
 Press ENTER to exit console.
```