

onlinegdb.com/online_c_compiler

Run Debug Stop Share Save {} Beautify

Language C

main.c

```
1 #include<stdio.h>
2 #include<conio.h>
3 #include<stdlib.h>
4 void main()
5 {
6     int ch,flag=1;
7     float s, l, b, h, a ,v, r;
8     while(flag==1)
9     {
10         printf(" 1 for cylinder\n");
11         printf(" 2 for cone\n");
12         printf(" 3 for Sphere\n");
13         printf(" 4 for Exit\n");
14         printf("Enter a choice\n");
15         scanf("%d", &ch);
16         switch(ch)
17         {
18             case 1:
19                 printf("Enter the radius\n");
20                 scanf("%f", &r);
21                 printf("Enter the height\n");
22                 scanf("%f", &h);
23                 a = (2*3.142*r*r)+2*3.142*r*h;
24                 printf("Area of the cylinder = %f\n", a);
25                 v = (3.142*r*r*h);
26                 printf("Volume of the cylinder = %f\n",v);
27                 getch();
```

onlinegdb.com/online_c_compiler

Run Debug Stop Share Save Beautify

Language C

```
main.c
29 case 2:
30     printf("Enter the radius\n");
31     scanf("%f", &r);
32     printf("Enter the height\n");
33     scanf("%f", &h);
34     a = (3.142*r)*(r + sqrt(r*r+h*h));
35     printf("Area of the cone = %f\n", a);
36     v = (3.142*r*r*h)/3;
37     printf("Volume of the cone = %f\n", v);
38     getch();
39     break;
40 case 3:
41     printf("Enter the radius\n");
42     scanf("%f", &r);
43     a = (4*3.142*r*r);
44     printf("Area of the sphere = %f\n", a);
45     v = (4/3)*(3.142*r*r*r);
46     printf("Volume of the sphere = %f\n",v);
47     getch();
48     break;
49 case 4:
50     printf("Exiting the program...\n");
51     flag=0;
52     getch();
53     break;
54
55 default:
```

CamScanner 09-22....pdf work2.pdf Show all

onlinegdb.com/online_c_compiler

Run Debug Stop Share Save Beautify

Language C

```
main.c
36     v = (3.142*r*r*h)/3;
37     printf("Volume of the cone = %f\n", v);
38     getch();
39     break;
40 case 3:
41     printf("Enter the radius\n");
42     scanf("%f", &r);
43     a = (4*3.142*r*r);
44     printf("Area of the sphere = %f\n", a);
45     v = (4/3)*(3.142*r*r*r);
46     printf("Volume of the sphere = %f\n",v);
47     getch();
48     break;
49 case 4:
50     printf("Exiting the program...\n");
51     flag=0;
52     getch();
53     break;
54
55 default:
56     printf("Error in figure code, exiting..\n");
57     flag=0;
58     getch();
59     break;
60 }
61 }
62 }
```

CamScanner 09-22....pdf

work2.pdf

Show all

6
Area of the cone = 9614.189453
Volume of the cone = 9557.963867
1 for cylinder
2 for cone
3 for Sphere
4 for Exit
Enter a choice
1
Enter the radius
3
Enter the height
4
Area of the cylinder = 131.964005
Volume of the cylinder = 113.112000
1 for cylinder
2 for cone
3 for Sphere
4 for Exit
Enter a choice
6
Error in figure code, exiting..

...Program finished with exit code 255
Press ENTER to exit console.

input

CamScanner 09-22....pdf ^

work2.pdf ^

Show all

onlinegdb.com/online_c_compiler

Run Debug Stop Share Save Beautify

Language C

```
main.c
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 struct Student {
5     char name[40];
6     int elective;
7 };
8
9 int main(){
10     int i,j,choice,n,least,temp;
11     int count[3] = {0,0,0};
12     char electives[3][40] = {"IOT","Advanced Java","J2EE"};
13     printf("Enter number of students: ");
14     scanf("%d",&n);
15
16     struct Student student[n];
17
18     for(i=0;i<3;i++){
19         printf("\n%d-%s",i+1,electives[i]);
20     }
21
22     for(i=0;i<n;i++){
23         printf("\nEnter the name of student: ");
24         scanf("%s",student[i].name);
25         printf("\nEnter the choice: ");
26         scanf("%d",&student[i].elective);
27     }
```

CamScanner 09-22....pdf work2.pdf Show all

onlinegdb.com/online_c_compiler

Run Debug Stop Share Save Beautify

Language C

```
main.c
28
29 for(i=0;i<n;i++){
30     if(student[i].elective == 1){
31         count[0]++;
32     }else if(student[i].elective == 2){
33         count[1]++;
34     }else{
35         count[2]++;
36     }
37 }
38
39 printf("\nOperation 1: \n");
40 printf("Enter the choice of elective you want to get the list for: \n");
41 int x;
42 scanf("%d",&x);
43
44 for(i=0;i<n;i++){
45     if(student[i].elective == x){
46         printf("> %s\n",student[i].name);
47     }
48 }
49
50 printf("Operation 2\n");
51 printf("Number of students in %s elective: %d\n",electives[0],count[0]);
52 printf("Number of students in %s elective: %d\n",electives[1],count[1]);
53 printf("Number of students in %s elective: %d\n",electives[2],count[2]);
54
55 printf("Operation 3\n");
```

CamScanner 09-22....pdf work2.pdf Show all

```
main.c
55 printf("Operation 3\n");
56
57 if(count[0] < 3){
58     printf("%s students must chose another elective due to less number\n",electives[0]);
59     printf("choose between Advanced Java(2) and J2EE(3)\n");
60     scanf("%d",&choice);
61     for(i=0;i<n;i++){
62         if(student[i].elective == 1){
63             student[i].elective = choice;
64             count[0]--;
65             count[choice-1]++;
66         }
67     }
68 }
69
70 if(count[1] < 3){
71     printf("%s students must chose another elective due to less number\n",electives[1]);
72     printf("choose between IOT(1) and J2EE(3)\n");
73     scanf("%d",&choice);
74     for(i=0;i<n;i++){
75         if(student[i].elective == 2){
76             student[i].elective = choice;
77         }
78         count[0]--;
79         count[choice-1]++;
80     }
81 }
```

CamScanner 09-22....pdf

work2.pdf

Show all


```
main.c
83     printf("%s students must chose another elective due to less number\n",electives[2]);
84     printf("choose between Advanced Java(1) and J2EE(2)\n");
85     scanf("%d",&choice);
86     for(i=0;i<n;i++){
87         if(student[i].elective == 3){
88             student[i].elective = choice;
89         }
90         count[0]--;
91         count[choice-1]++;
92     }
93 }
94 printf("Number of students in %s elective: %d\n",electives[0],count[0]);
95 printf("Number of students in %s elective: %d\n",electives[1],count[1]);
96 printf("Number of students in %s elective: %d\n",electives[2],count[2]);
97
98 printf("Operation 4\n");
99
100 for(i=0;i<3;i++){
101     printf("\nStudents in %s: \n",electives[i]);
102     for(j=0;j<n;j++){
103         if(student[j].elective == (i+1)){
104             printf("> %s\n",student[j].name);
105         }
106     }
107 }
108 return 0;
109 }
```

CamScanner 09-22....pdf

work2.pdf

Show all


```
main.c
Language C
input
2-Advanced Java
3-J2EE
Enter the name of student: ishika
Enter the choice: 2
Enter the name of student: hriday
Enter the choice: 1
Enter the name of student: dev
Enter the choice: 3
Operation 1:
Enter the choice of elective you want to get the list for:
iot
Operation 2
Number of students in IOT elective: 1
Number of students in Advanced Java elective: 1
Number of students in J2EE elective: 1
Operation 3
IOT students must chose another elective due to less number
choose between Advanced Java(2) and J2EE(3)
```