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Language C

```
main.c
8
9  #include<stdio.h>
10 void main()
11 {
12     int i,j,c=1,n;
13     printf("Enter the value of n\n");
14     scanf("%d",&n);
15     for(i=1;i<=n;i++)
16     {
17         for(j=1;j<=i;j++)
18         {
19             printf("%d\t",c);
20             c++;
21         }
22         printf("\n");
23     }
24 }
25
```

Input

Enter the value of n  
4  
1  
2      3  
4      5      6  
7      8      9      10

...Program finished with exit code 4  
Press ENTER to exit console.



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Language C

main.c

```
8 #include<stdio.h>
9 void main()
10 {
11     int internal_marks,external_marks,x,total_marks;
12     printf("Enter the CIE and SEE marks respectively\n");
13     scanf("%d%d",&internal_marks,&external_marks);
14     x= (external_marks/2);
15     total_marks= x+internal_marks;
16     if (total_marks<100 && total_marks>=90)
17     {
18         printf("Grade is S");
19     }
20     else if (total_marks<90 && total_marks>=80)
21     {
22         printf("Grade is A");
23     }
24     else if (total_marks<80 && total_marks>=70)
25     {
26         printf("Grade is B");
27     }
28     else if (total_marks<70 && total_marks>=60)
29     {
30         printf("Grade is C");
31     }
32     else if (total_marks<60 && total_marks>=40)
33     {
34         printf("Grade is D");
35     }
36     else
37     {
38         printf ("Grade is Fail");
```

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```
main.c
21 {
22     printf("Grade is A");
23 }
24 else if (total_marks<80 && total_marks>=70)
25 {
26     printf("Grade is B");
27 }
28 else if (total_marks<70 && total_marks>=60)
29 {
30     printf("Grade is C");
31 }
32 else if (total_marks<60 && total_marks>=40)
33 {
34     printf("Grade is D");
35 }
36 else
37 {
38     printf ("Grade is Fail");
39 }
40 }
41
```

input

Enter the CIE and SEE marks respectively  
50 98  
Grade is S

...Program finished with exit code 10  
Press ENTER to exit console.

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Language C

```
main.c
8  #include<stdio.h>
9  void main()
10 {
11     int x,y,i,j,c=0;
12     printf("Enter the starting value\n");
13     scanf("%d",&x);
14     printf("Enter the ending value\n");
15     scanf("%d",&y);
16     printf("The prime numbers between the two entered integers are:\n");
17     for(i=x; i<=y; i++)
18     {
19         for(j=1;j<=i;j++)
20         {
21             if(i%j==0)
22             {
23                 c++;
24             }
25         }
26         if(c==2)
27         {
28             printf("%d\n",i);
29         }
30         c=0;
31     }
32 }
```

input

Enter the starting value  
10  
Enter the ending value  
20

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```
main.c
20 {
21     if(i%j==0)
22     {
23         c++;
24     }
25 }
26 if(c==2)
27 {
28     printf("%d\n",i);
29 }
30 c=0;
31 }
32 }
33
34
```

input

Enter the starting value  
10  
Enter the ending value  
20  
The prime numbers between the two entered integers are:  
11  
13  
17  
19

...Program finished with exit code 20  
Press ENTER to exit console.



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Language C

main.c

```
9  #include<stdio.h>
10 #include<math.h>
11 void main()
12 {
13     float r,h,area,volume;
14     int opt;
15     char ch;
16     const float pi=3.14;
17     do{
18         printf("For which shape do you want to calculate Area and Volume: \n");
19         printf("\n OPTIONS:\n1-Cylinder\n2-Cone\n3-Sphere\n");
20         scanf("%d",&opt);
21         switch(opt){
22             case 1:
23                 printf("\nEnter the radius of cylinder: ");
24                 scanf("%f",&r);
25                 printf("\nEnter the height of cylinder: ");
26                 scanf("%f",&h);
27                 area = (2*pi*r*h) + (2*pi*r*r);
28                 volume = pi*r*r*h;
29                 printf("\n Area : %f",area);
30                 printf("\n Volume : %f",volume);
31                 break;
32             case 2:
33                 printf("\nEnter the radius of Cone: ");
34                 scanf("%f",&r);
35                 printf("\nEnter the height of Cone: ");
36                 scanf("%f",&h);
37                 area = pi*r*(r+sqrt((h*h + r*r)));
38                 volume = pi*r*r*(h/3);
39                 printf("\n Area : %f",area);
```

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
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main.c

```
30     printf("\n Volume : %f",volume);
31     break;
32     case 2:
33     printf("\nEnter the radius of Cone: ");
34     scanf("%f",&r);
35     printf("\nEnter the height of Cone: ");
36     scanf("%f",&h);
37     area = pi*r*(r+sqrt((h*h + r*r)));
38     volume = pi*r*r*(h/3);
39     printf("\n Area : %f",area);
40     printf("\n Volume : %f",volume);
41     break;
42     case 3:
43     printf("\nEnter the radius of Sphere: ");
44     scanf("%f",&r);
45     area = 4*pi*r*r;
46     volume = (4/3)*pi*r*r*r;
47     printf("\n Area : %f",area);
48     printf("\n Volume : %f",volume);
49     break;
50     default:
51     printf("Enter a valid option!!");
52     break;
53 }
54 printf("\nDo you want to repeat the operation Y/N:\n ");
55 scanf("%s", &ch);
56 }
57 while (ch == 'y' || ch == 'Y');
58 }
59 }
60 }
```

Language C

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Windows taskbar with icons for Start, Task View, File Explorer, Google Chrome, and Online C Compiler. System tray shows volume, network, and date/time (20:18, 22-09-2020).

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Language C

input

```
For which shape do you want to calculate Area and Volume:

OPTIONS:
1-Cylinder
2-Cone
3-Sphere
1

Enter the radius of cylinder: 2

Enter the height of cylinder: 9

Area : 138.160004
Volume : 113.040001

Do you want to repeat the operation Y/N:
y

For which shape do you want to calculate Area and Volume:

OPTIONS:
1-Cylinder
2-Cone
3-Sphere
3

Enter the radius of Sphere: 2

Area : 50.240002
Volume : 25.120001

Do you want to repeat the operation Y/N:
```

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main.c

```
9  #include<stdio.h>
10 #include<string.h>
11
12 struct getname {
13     char name[10];
14 };
15 int main() {
16     struct getname arr[100];
17     int n;
18     int count1 = 0, count2 = 0, count3 = 0;
19     int a[100];
20     printf("Select the elective course\n");
21     printf("1.Internet of things\n2.Advanced Java\n3.Advanced Data Structures\n");
22
23     int num;
24     printf("Enter the no. of students: ");
25     scanf("%d",&num);
26     for(int i=0;i<num;i++) {
27         printf("Enter student's name : ");
28         scanf("%s",&arr[i].name);
29         printf("Enter choice : ");
30         scanf("%d",&n);
31         a[i] = n;
32         if(a[i] == 1) {
33             count1++;
34         }
35         else if(a[i] == 2) {
36             count2++;
37         }
38         else if(a[i] == 3) {
39             count3++;
```

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Language C

```
main.c
38     else if(a[i] == 3) {
39         count3++;
40     }
41 }
42
43 printf("Operation 1\n");
44 int x;
45 printf("Enter the elective for which you want the list: ");
46 scanf("%d",&x);
47 for (int i = 0; i < num; i++)
48 {
49     if(a[i] == x) {
50         printf(">%s\n",arr[i].name);
51     }
52 }
53
54 printf("Operation 2\n");
55 if(count1<5) {
56     count1 = 0;
57     printf("All students who opted for elective course 1 are required to choose different elective course.\n");
58     for(int i=0;i<num;i++) {
59         if(a[i] == 1) {
60             printf("%s Select elective course 2 or 3: ",arr[i].name);
61             scanf("%d",&n);
62             a[i] = n;
63             if(n == 3)
64                 count3++;
65             else if(n == 2)
66                 count2++;
67         }
68     }
69 }
```



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main.c

```
68     }
69     }
70     if(count2<5) {
71         count2 = 0;
72         printf("All students who opted for elective course 2 are required to choose different electivecourse.\n");
73         for(int i=0;i<num;i++) {
74             if(a[i] == 2) {
75                 printf("%s Select elective course 1 or 3: ",arr[i].name);
76                 scanf("%d",&n);
77                 a[i] = n;
78                 if(n == 1)
79                     count1++;
80                 else if(n == 3)
81                     count3++;
82             }
83         }
84     }
85     if(count3<5) {
86         count3 = 0;
87         printf("All students who opted for elctive course 3 are required to choose different elective course.\n");
88         for(int i=0;i<num;i++) {
89             if(a[i] == 3) {
90                 printf("%s Select elective course 2 or 1: ",arr[i].name);
91                 scanf("%d",&n);
92                 a[i] = n;
93                 if(n == 1)
94                     count1++;
95                 else if(n == 2)
96                     count2++;
97             }
98         }
```

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main.c

```
83     }
84 }
85 if(count3<5) {
86     count3 = 0;
87     printf("All students who opted for elective course 3 are required to choose different elective course.\n");
88     for(int i=0;i<num;i++) {
89         if(a[i] == 3) {
90             printf("%s Select elective course 2 or 1: ",arr[i].name);
91             scanf("%d",&n);
92             a[i] = n;
93             if(n == 1)
94                 count1++;
95             else if(n == 2)
96                 count2++;
97         }
98     }
99 }
100 printf("Operation 3\n");
101 printf("Number of students who opted for elective course one : %d\n",count1);
102 printf("Number of students who opted for elective course two : %d\n",count2);
103 printf("Number of students who opted for elective course three : %d\n",count3);
104
105 printf("Operation 4\n");
106 printf("List of students in elective course1: \n");
107 for (int i = 0; i < num; i++)
108 {
109     if(a[i] == 1) {
110         printf(">%s\n",arr[i].name);
111     }
112 }
113 }
```

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Language C

main.c

```
101 printf("Number of students who opted for elective course one : %d\n",count1);
102 printf("Number of students who opted for elective course two : %d\n",count2);
103 printf("Number of students who opted for elective course three : %d\n",count3);
104
105 printf("Operation 4\n");
106 printf("List of students in elective course1: \n");
107 for (int i = 0; i < num; i++)
108 {
109     if(a[i] == 1) {
110         printf(">%s\n",arr[i].name);
111     }
112 }
113
114 printf("List of students in elective course2: \n");
115 for (int i = 0; i < num; i++)
116 {
117     if(a[i] == 2) {
118         printf(">%s\n",arr[i].name);
119     }
120 }
121
122 printf("List of students in elective course3: \n");
123 for (int i = 0; i < num; i++)
124 {
125     if(a[i] == 3) {
126         printf(">%s\n",arr[i].name);
127     }
128 }
129
130 }
131
```





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```
input
Select the elective course
1.Internet of things
2.Advanced Java
3.Advanced Data Structures
Enter the no. of students: 15
Enter student's name : a
Enter choice : 1
Enter student's name : b
Enter choice : 1
Enter student's name : c
Enter choice : 1
Enter student's name : d
Enter choice : 1
Enter student's name : e
Enter choice : 2
Enter student's name : f
Enter choice : 2
Enter student's name : g
Enter choice : 2
Enter student's name : h
Enter choice : 2
Enter student's name : i
Enter choice : 2
Enter student's name : j
Enter choice : 3
Enter student's name : k
Enter choice : 3
Enter student's name : l
Enter choice : 3
Enter student's name : m
Enter choice : 3
```

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input

```
Enter student's name : m
Enter choice : 3
Enter student's name : n
Enter choice : 3
Enter student's name : o
Enter choice : 3
Operation 1
Enter the elective for which you want the list: 1
>a
>b
>c
>d
Operation 2
All students who opted for elective course 1 are required to choose different elective course.
a Select elective course 2 or 3: 2
b Select elective course 2 or 3: 3
c Select elective course 2 or 3: 2
d Select elective course 2 or 3: 3
Operation 3
Number of students who opted for elective course one : 0
Number of students who opted for elective course two : 7
Number of students who opted for elective course three : 8
Operation 4
List of students in elective course1:
List of students in elective course2:
>a
>c
>e
>f
>g
>h
```

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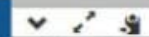
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input

```
a Select elective course 2 or 3: 2
b Select elective course 2 or 3: 3
c Select elective course 2 or 3: 2
d Select elective course 2 or 3: 3
Operation 3
Number of students who opted for elective course one : 0
Number of students who opted for elective course two : 7
Number of students who opted for elective course three : 8
Operation 4
List of students in elective course1:
List of students in elective course2:
>a
>c
>e
>f
>g
>h
>i
List of students in elective course3:
>b
>d
>j
>k
>l
>m
>n
>o
```

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

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