

main.c

```
1 #include<stdio.h>
2 void main()
3 {
4     int rows,i,j,no=1;
5     printf("Enter number of rows");
6     scanf("%d",&rows);
7     for(i=1;i<=rows;i++)
8     {
9         for(j=1;j<=i;j++)
10        {
11            printf("%d ",no);
12            no++;
13        }
14        printf("\n");
15    }
16 }
```

input

Enter number of rows6

```
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
16 17 18 19 20 21
```

...Program finished with exit code 6










Press ENTER to exit console.

```
1 #include<stdio.h>
2 void main()
3 {
4     float c,s,total;
5     printf("Enter CIE marks out of 50");
6     scanf("%f",&c);
7     printf("Enter SEE marks out of 100");
8     scanf("%f",&s);
9     total=c+(s/2);
10    if(total>=90)
11        printf("S Grade");
12    else if(total>=80)
13        printf("A Grade");
14    else if(total>=70)
15        printf("B Grade");
16    else if(total>=60)
17        printf("C Grade");
18    else if(total>=50)
19        printf("D Grade");
20    else if(total>=40)
21        printf("E Grade");
22    else
23        printf("F Grade");
24 }
25
```



```
Enter CIE marks out of 50 45.5  
Enter SEE marks out of 100 90.5  
S Grade
```

```
...Program finished with exit code 7  
Press ENTER to exit console.
```



 Run Debug Stop Share Save Beautify

Language C



main.c

```
1  #include<stdio.h>
2  #include<math.h>
3  void main()
4  {
5      int ch;
6      float r,h,v,a;
7      while(ch!=4)
8      {
9          printf("Enter your choice:\n 1.Cylinder\n 2.Cone\n 3.Sphere\n 4.Exit\n");
10         scanf("%d",&ch);
11         switch(ch)
12         {
13             case 1:
14                 printf("Enter the radius and height of the cylinder\n");
15                 scanf("%f%f",&r,&h);
16                 a=(2*3.14*r*h)+(2*3.14*pow(r,2));
17                 v=3.14*pow(r,2)*h;
18                 printf("Area of cylinder: %.3f\nVolume of cylinder: %.3f\n",a,v);
19                 break;
20             case 2:
21                 printf("Enter the radius and height of the cone\n");
22                 scanf("%f%f",&r,&h);
23                 a=3.14*r*(r+sqrt(pow(h,2)+pow(r,2)));
24                 v=(3.14*r*r*h)/3;
25                 printf("Area of cone: %.3f\nVolume of cone: %.3f\n",a,v);
26                 break;
27             case 3:
28                 printf("Enter the radius of the sphere\n");
29                 scanf("%f",&r);
30                 a=4*3.14*r*r;
```

main.c

```
13     case 1:
14         printf("Enter the radius and height of the cylinder\n");
15         scanf("%f%f",&r,&h);
16         a=(2*3.14*r*h)+(2*3.14*pow(r,2));
17         v=3.14*pow(r,2)*h;
18         printf("Area of cylinder: %.3f\nVolume of cylinder: %.3f\n",a,v);
19         break;
20     case 2:
21         printf("Enter the radius and height of the cone\n");
22         scanf("%f%f",&r,&h);
23         a=3.14*r*(r+sqrt(pow(h,2)+pow(r,2)));
24         v=(3.14*r*r*h)/3;
25         printf("Area of cone: %.3f\nVolume of cone: %.3f\n",a,v);
26         break;
27     case 3:
28         printf("Enter the radius of the sphere\n");
29         scanf("%f",&r);
30         a=4*3.14*r*r;
31         v=(4/3)*3.14*pow(r,3);
32         printf("Area of cone: %.3f\nVolume of cone: %.3f\n",a,v);
33         break;
34     case 4:
35         break;
36     default:
37         break;
38 }
39
40 }
41 }
42
```



input

Enter your choice:

- 1.Cylinder
- 2.Cone
- 3.Sphere
- 4.Exit

2

Enter the radius and height of the cone

15.5

30.0

Area of cone: 2397.854

Volume of cone: 7543.850

Enter your choice:

- 1.Cylinder
- 2.Cone
- 3.Sphere
- 4.Exit

4

...Program finished with exit code 4

Press ENTER to exit console.



```
1 #include<stdio.h>
2 void main()
3 {
4     int n1,n2;
5     printf("Enter the first number ");
6     scanf("%d",&n1);
7     printf("Enter the second number ");
8     scanf("%d",&n2);
9     printf("The prime numbers are: ");
10    for(int i=n1;i<=n2;i++)
11    {
12        int c=0;
13        for(int j=1;j<=i;j++)
14        {
15            if(i%j==0)
16            {
17                c++;
18            }
19        }
20        if(c==2)
21            printf("%d ",i);
22    }
23 }
24
25
26
```



```
Enter the first number 1  
Enter the second number 20  
The prime numbers are: 2 3 5 7 11 13 17 19
```

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