

```
1  #include <stdio.h>
2  int main()
3  {
4      int i,j,count=1,n;
5      printf("\n Enter the value of n: ");
6      scanf("%d",&n);
7      for(i=1;i<=n;i++)
8      {
9          printf("\n");
10         for(j=1;j<=i;j++)
11             printf("%d ",count++);
12     }
13     return 0;
14 }
```

Enter the value of n: 4

1  
2 3  
4 5 6  
7 8 9 10

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

I

main.c

```
1  #include <stdio.h>
2  int main()
3  {
4      int m1,m2,m3,total=0;
5      printf("\nEnter the marks obtained in CIE(out of 50): ");
6      scanf("%d",&m1);
7      printf("\nEnter the marks obtained in SEE(out of 100): ");
8      scanf("%d",&m2);
9      m3=m2/2;
10     total=m1+m3;
11     if(total >= 90)
12     {
13         printf("\n S grade");
14     }
15     else if(total >= 80)
16     {
17         printf("\n A grade");
18     }
19     else if(total >= 70)
20     {
21         printf("\n B grade");
22     }
```



```
20     {
21         printf("\n B grade");
22     }
23     else if(total >= 60)
24     {
25         printf("\n C grade");
26     }
27     else if(total >= 50)
28     {
29         printf("\n D grade");
30     }
31     else if(total >= 40)
32     {
33         printf("\n E grade");
34     }
35     else
36     {
37         printf("\n FAIL");
38     }
39     return 0;
40 }
```

input

Enter the marks obtained in CIE(out of 50): 34

Enter the marks obtained in SEE(out of 100): 77

B grade

```
main.c
1 #include <stdio.h>
2
3 void main(){
4     int num,i,c,num1,num2;
5
6     printf("Enter starting number of range: ");
7     scanf("%d",&num1);
8
9     printf("Enter ending number of range : ");
10    scanf("%d",&num2);
11    printf("The prime numbers between %d and %d are : \n",num1,num2);
12
13    for(num = num1;num<=num2;num++)
14    {
15        c = 0;
16
17        for(i=2;i<=num/2;i++)
18        {
19            if(num%i==0){
20                c++;
21                break;
22            }
23        }
24    }
25 }
```



```

9
10 printf("Enter ending number of range : ");
11 scanf("%d",&num2);
12 printf("The prime numbers between %d and %d are
13
14 for(num = num1;num<=num2;num++)
15 {
16     c = 0;
17
18     for(i=2;i<=num/2;i++)
19     {
20         if(num%i==0){
21             c++;
22             break;
23         }
24     }
25
26     if(c==0 && num!= 1)
27         printf("%d ",num);
28 printf("\n");
29 }

```

input

```
Enter starting number of range: 3
Enter ending number of range : 67
The prime numbers between 3 and 67 are :
3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67

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

main.c

```
1  #include<stdio.h>
2  #include<math.h>
3  int main()
4  {
5      int choice;
6      const float pi=3.14;
7      int r1,r2,r3;
8      int h1,h2;
9      float area,volume;
10     char ch;
11     do
12     {
13         printf("Select your choice from the options given below:\n");
14         printf("1.Cyliner\n2.Cone\n3.Sphere\n");
15         scanf("%d",&choice);
16         printf("Enter the radius:\n");
17         scanf("%d",&r1);
18         printf("Enter the height:\n");
19         scanf("%d",&h1);
20         switch(choice)
21         {
22             case 1:
```



```

19     scanf("%d",&h1);
20     switch(choice)
21     {
22         case 1:
23             printf("For Cylinder:\n");
24             area=((2*pi*r1*h1)+(2*pi*r1*r1));
25             volume=(pi*r1*r1*h1);
26             printf("Area of cylinder=%f\n",area);
27             printf("Volume of cylinder=%f\n",volume);
28             break;
29
30         case 2:
31             printf("For Cone:\n");
32             area=((pi*r2)*(r1+(sqrt((h1*h2)+(r1*r1)))));
33             volume=(pi*r1*r1*h1)/3;
34             printf("Area of cone=%f\n",area);
35             printf("Volume of cone=%f\n",volume);
36             break;
37
38         case 3:
39             printf("For sphere:\n");
40             area=4*pi*r1*r1;

```

main.c

I

```
printf("Volume of cone=%f\n",volume);
break;

case 3:
    printf("For sphere:\n");
    area=4*pi*r1*r1;
    volume=((4/3)*pi*r1*r1*r1);
    printf("Area of sphere=%f\n",area);
    printf("Volume of sphere=%f\n",volume);
    break;

default:
    printf("Please input correct choice:\n");
    break;

}

printf("To continue press y:\n");
scanf("%s",&ch);
}
while(ch=='y' || ch=='Y');
```

input

Select your choice from the options given below:

1.Cyliner

2.Cone

3.Sphere

2 I

Enter the radius:

3

Enter the height:

4

For Cone:

Area of cone=0.000000

Volume of cone=37.680000

To continue press y: