

```

10 #include<math.h>
11
12 int main()
13 {
14     int a;
15     float area,volume,r,h;
16     do
17     {
18
19         printf("which shape 1.cylinder\n 2.cone\n 3.sphere\n 4.stop\n");
20         scanf("%d",&a);
21         switch (a)
22         {
23             case 1:
24             {
25                 printf("input radius and height\t");
26                 scanf("%f %f",&r,&h);
27                 area=(2*3.14*r*h)+(2*3.14*r*r);
28                 volume=3.14*r*r*h;
29                 break;
30             }
31             case 2:
32             {
33                 printf("input radius and height\t");
34                 scanf("%f %f",&r,&h);
35                 area=3.14*r*(r+sqrt((h*h)+(r*r)));
36                 volume=(3.14*r*r*h)/3;
37                 break;
38             }
39             case 3:
40             {
41                 printf("input radius\t");
42                 scanf("%f",&r);
43                 area=4*3.14*r*r;
44                 volume=3.14*r*r*r*4/3;
45                 break;
46             }
47         }
48         if(a!=4)
49         {
50             printf("the area=%f\n",area);
51             printf("the voloume=%f\n",volume);
52         }
53     }while(a!=4);
54
55     return 0;
56 }
57

```



```
which shape 1.cylinder
```

```
2.cone
```

```
3.sphere
```

```
4.stop
```

```
1
```

```
input radius and height 30 40
```

```
the area=13188.000000
```

```
the voloume=113040.000000
```

```
which shape 1.cylinder
```

```
2.cone
```

```
3.sphere
```

```
4.stop
```

```
4
```

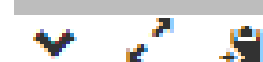
```
...Program finished with exit code 0
```

```
Press ENTER to exit console. 
```

```

7
8  #include <stdio.h>
9
10 int main()
11 {
12
13     int a, b, c, i, j;
14     printf("Enter two numbers ");
15     scanf("%d %d", &a, &b);
16     for (i = a; i <= b; i++)
17     {
18
19         if (i == 1 || i == 0)
20             continue;
21
22
23         c = 1;
24
25         for (j = 2; j <= i / 2; ++j)
26         {
27             if (i % j == 0) {
28                 c = 0;
29                 break;
30             }
31         }
32
33
34         if (c == 1)
35             printf("%d ", i);
36     }
37
38     return 0;
39 }

```



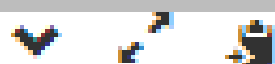
Enter two numbers 20 30

23 29

...Program finished with exit code 0

Press ENTER to exit console.

```
8
9 #include <stdio.h>
10
11 int main()
12 {
13     int m ;
14     printf("the marks out of 100\t");
15     scanf("%d",&m);
16     if(m>=90)
17         printf("S grade");
18     else if(m>=80)
19         printf("A grade");
20     else if(m>=70)
21         printf("B grade");
22     else if(m>=60)
23         printf("C grade");
24     else if(m>=50)
25         printf("D grade");
26     else if(m>=40)
27         printf("E grade");
28     else printf("FAIL");
29
30
31     return 0;
32 }
33
```



the marks out of 100 50

D grade

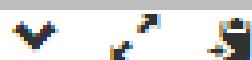
...Program finished with exit code 0

Press ENTER to exit console.

```

8
9  #include <stdio.h>
10
11 int main()
12 {
13     int n,i,j,m;
14     printf("enter the number\t");
15     scanf("%d",&n);
16     i=1;
17     for(j=0;j<n;j++)
18     {
19         for(m=0;m<n;m++)
20         {
21             if(m<=j)
22             {
23                 printf("%d\t",i);
24                 i++;
25             }
26         }
27         printf("\n");
28     }
29
30     return 0;
31 }
32

```



```

enter the number      5
1
2      3
4      5      6
7      8      9      10
11     12     13     14     15

```

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