```c
#include<math.h>

int main()
{
    int a;
    float area,volume,r,h;
    do
    {

    printf("which shape 1.cylinder\n 2.cone\n 3.sphere\n 4.stop\n");
    scanf("%d",&a);
    switch (a)
    {
        case 1:
        {
            printf("input radius and height\t");
            scanf("%f %f",&r,&h);
            area=(2*3.14*r*h)+(2*3.14*r*r);
            volume=3.14*r*r*h;
            break;
        }
        case 2:
        {
            printf("input radius and height\t");
            scanf("%f %f",&r,&h);
            area=3.14*r*(r+sqrt((h*h)+(r*r)));
            volume=(3.14*r*r*h)/3;
            break;
        }
        case 3:
        {
            printf("input radius\t");
            scanf("%f",&r);
            area=4*3.14*r*r;
            volume=3.14*r*r*r*4/3;
            break;
        }
    }
    if(a!=4)
    {
        printf("the area=%f\n",area);
        printf("the voloume=%f\n",volume);
    }

    }while(a!=4);

    return 0;
}
```

```
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.
```
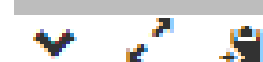
```c
#include <stdio.h>

int main()
{

    int a, b,c, i, j;
    printf("Enter two numbers ");
    scanf("%d %d",&a, &b);
    for (i = a; i <= b; i++)
    {

        if (i == 1 || i == 0)
            continue;


        c  = 1;

        for (j = 2; j <= i / 2; ++j)
        {
            if (i % j == 0) {
                c= 0;
                break;
            }
        }


        if (c== 1)
            printf("%d ", i);
    }

    return 0;
}
```

```c
#include <stdio.h>

int main()
{
    int m ;
    printf("the marks out of 100\t");
    scanf("%d",&m);
    if(m>=90)
    printf("S grade");
    else  if(m>=80)
    printf("A grade");
    else if(m>=70)
    printf("B grade");
    else if(m>=60)
    printf("C grade");
    else if(m>=50)
    printf("D grade");
    else if(m>=40)
    printf("E grade");
    else printf("FAIL");


    return 0;
}
```
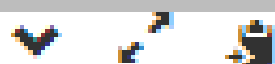
```
the marks out of 100     50
D grade


...Program finished with exit code 0
Press ENTER to exit console.█
```
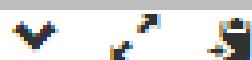
```c
#include <stdio.h>

int main()
{
    int n,i,j,m;
    printf("enter the number\t");
    scanf("%d",&n);
    i=1;
    for(j=0;j<n;j++)
    {
        for(m=0;m<n;m++)
        {
            if(m<=j)
            {
                printf("%d\t",i);
                i++;
            }
        }
        printf("\n");
    }

    return 0;
}
```

```
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.
```