Factorial of a Number

Aim:

To write a C program to find the factorial of a given number.

Algorithm:

1) Start the program.
2) Declare three variable i, fact and n.
3) Initialize i and fact as 1.
4) Get values for n.
5) While 'i' is less than or equal to 'n' do the following
   a). Calculate fact as fact*i.
   b). Increment i by one.
6) Display fact value.
7) Stop the program.

Program:

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

void main()
{
 int i, fact, n;
 clrscr();
 i = fact = 1;
 printf("\nEnter Nmber to find factorial: ");
 scanf("%d",&n);
 while(i<=n)
 {
  fact = fact * i;
  i = i + 1;
 }
 printf("\nFactorial of %d is %d",n,fact);
```

```
   getch();
}
```

Result:
     Thus the C program to find the factorial of a given number is executed successfully.