

Aim:

Write a program to find the **Factorial** of a non-zero positive integer **n**, denoted by **n!**, where factorial is the product of all positive integers less than or equal to **n**. For example, **5! = 5 * 4 * 3 * 2 * 1 = 120**.

Note:

- For negative values factorial cannot be calculated, so print **"Invalid"**.

Constraints: -10 <= **n** <= 10

Instruction: To run your custom test cases strictly map your input and output layout with the visible test cases.

Source Code:

FactorialDowhile.c

```
#include<stdio.h>
int main(){
    int n,i,fact=1;
    printf("Num: ");
    scanf("%d",&n);
    if (n<0)
    {
        printf("Invalid\n");
    }
    else{
        for(int i=1;i<=n;i++)
            fact=fact*i;
        printf("Factorial: %d\n", fact);
    }
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Num: 9
Factorial: 362880

Test Case - 2
User Output
Num: 0
Factorial: 1

Test Case - 3
User Output
Num: -10
Invalid