

```

#include <stdio.h>

int factorial(int n)
{
    if (n == 0 || n == 1)
        return 1;
    else
        return n * factorial(n - 1);
}

int main()
{
    int num;

    printf("Enter a number: ");
    scanf("%d", &num);

    if (num < 0)
        printf("Factorial is not defined for negative numbers.\n");
    else
        printf("Factorial of %d is: %d\n", num, factorial(num));

    return 0;
}

```

Programiz C Online Compiler	
<pre> main.c 1 #include <stdio.h> 2 int factorial(int n) 3 { 4 if (n == 0 n == 1) 5 return 1; 6 else 7 return n * factorial(n - 1); 8 } 9 int main() 10 { 11 int num; 12 printf("Enter a number: "); 13 scanf("%d", &num); 14 if (num < 0) 15 printf("Factorial is not defined for negative numbers.\n"); 16 else 17 printf("Factorial of %d is: %d\n", num, factorial(num)); 18 return 0; 19 } 20 </pre>	<p>Enter a number: 8 Factorial of 8 is: 40320</p> <p>=== Code Execution Successful ===</p>