

Compile Result

```
Enter a positive integer: 7  
Factorial of 7 = 5040  
[Process completed - press Enter]
```

Algorithm

Step 1: Start

Step 2: Declare `int multiplyNumbers (int n), int n`

Step 3: Read the `n` value

Step 4: Display factorial of `n`

Step 5: Called function `int multiplyNumbers (int n)`

if ($n \geq 1$)

return $n * \text{multiplyNumbers}(n-1)$

else
return 1

Step 6: Stop.

Flowchart

