

# CSIS 3540

# Client Server Systems

## Lab 4

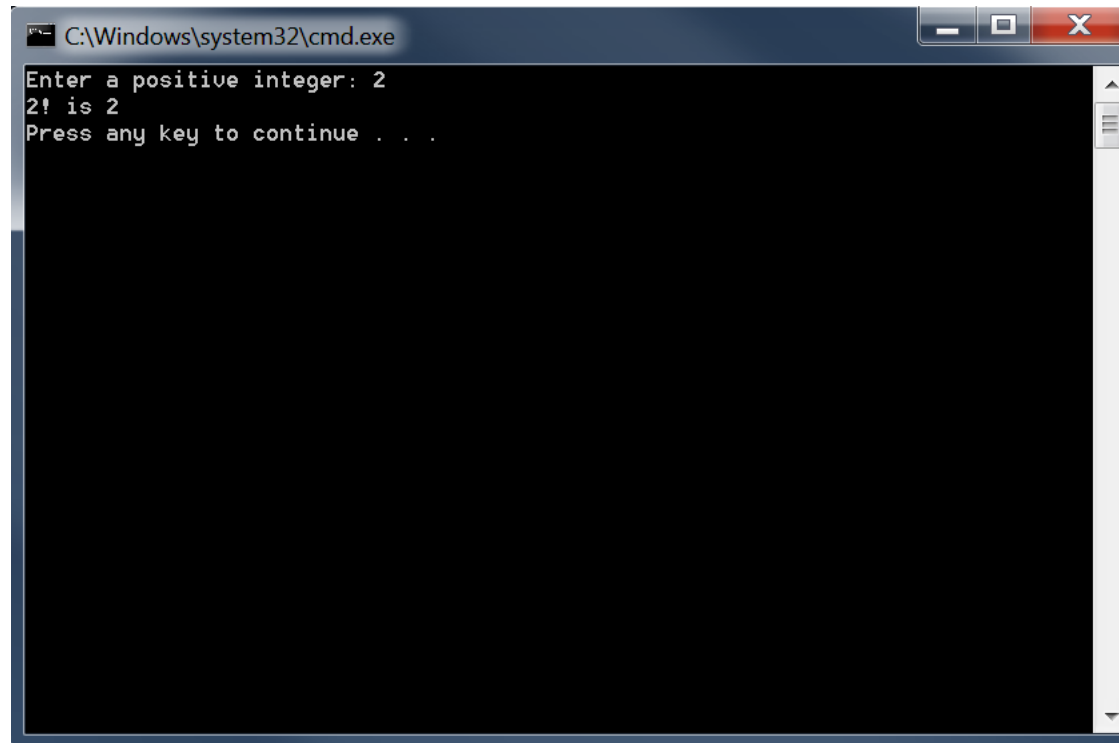
5.37 (*Factorials*) The factorial of a nonnegative integer  $n$  is written as  $n!$  (pronounced “ $n$  factorial”) and is defined as follows:

$n! = n \cdot (n-1) \cdot (n-2) \cdot \dots \cdot 1$  (for values of  $n$  greater than or equal to 1)

and

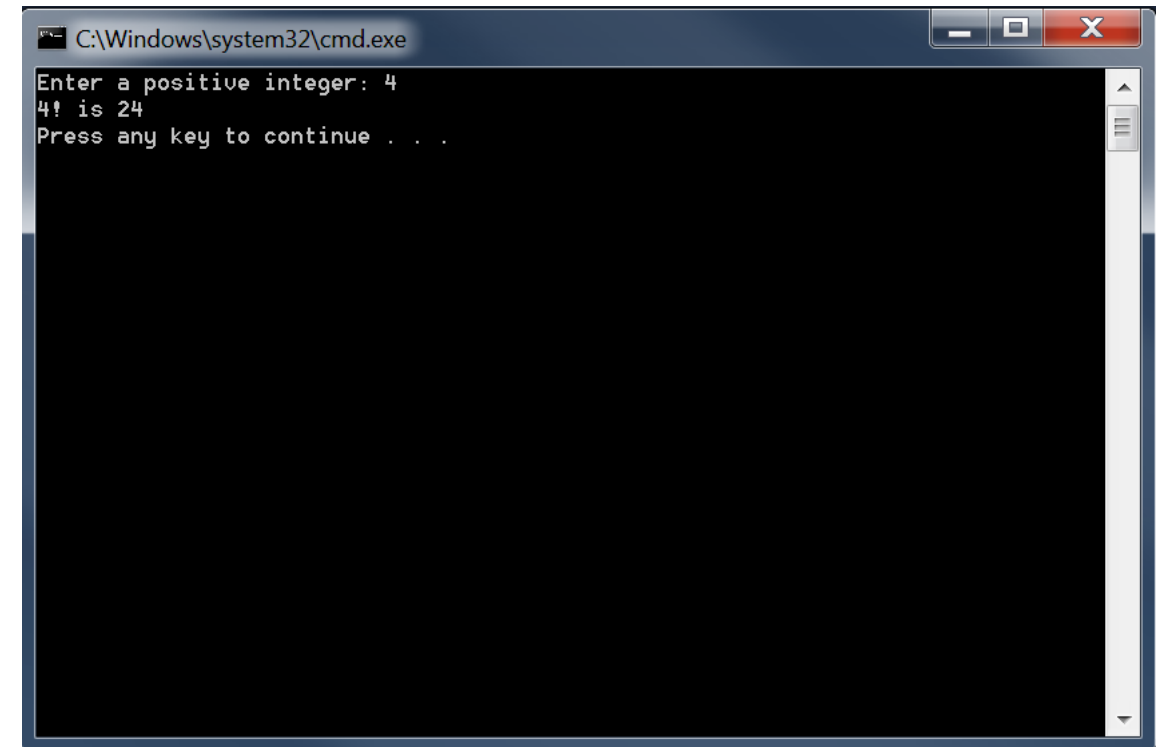
$n! = 1$  (for  $n = 0$ )

For example,  $5! = 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1$ , which is 120. Write an app that reads a nonnegative integer and computes and displays its factorial.



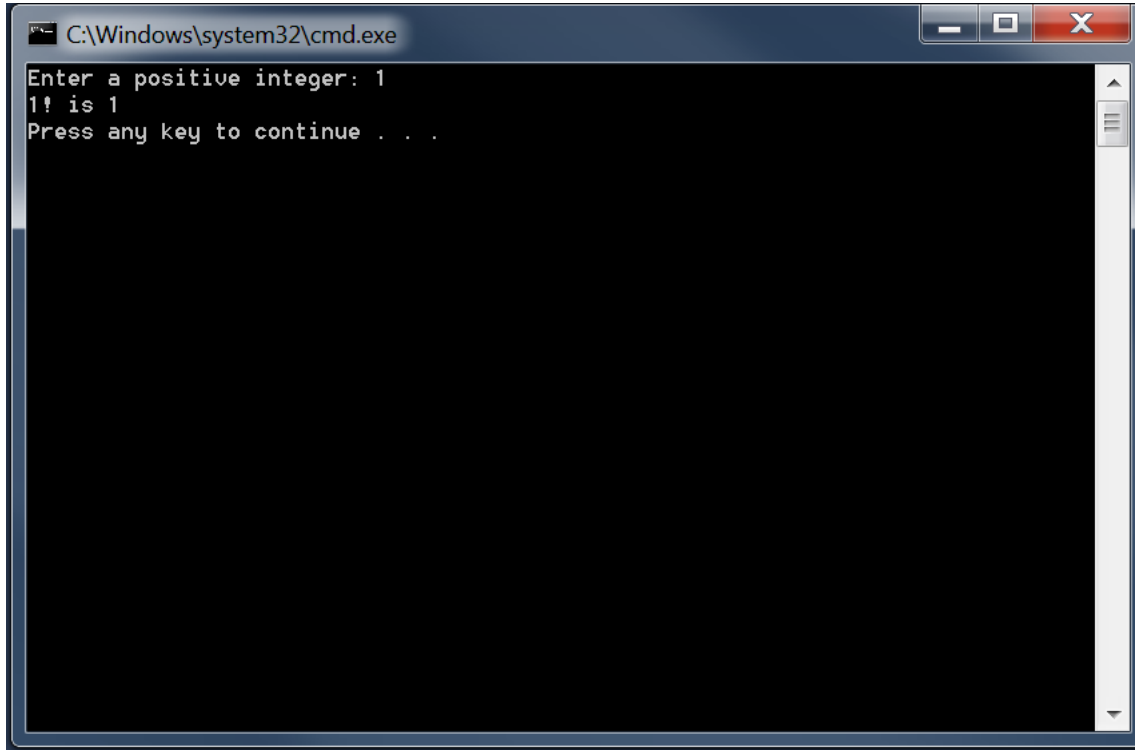
A screenshot of a Windows command prompt window. The title bar shows the path `C:\Windows\system32\cmd.exe`. The window contains the following text: `Enter a positive integer: 2`, `2! is 2`, and `Press any key to continue . . .`. The window has standard Windows window controls (minimize, maximize, close) in the top right corner.

```
C:\Windows\system32\cmd.exe
Enter a positive integer: 2
2! is 2
Press any key to continue . . .
```



A screenshot of a Windows command prompt window. The title bar shows the path `C:\Windows\system32\cmd.exe`. The window contains the following text: `Enter a positive integer: 4`, `4! is 24`, and `Press any key to continue . . .`. The window has standard Windows window controls (minimize, maximize, close) in the top right corner.

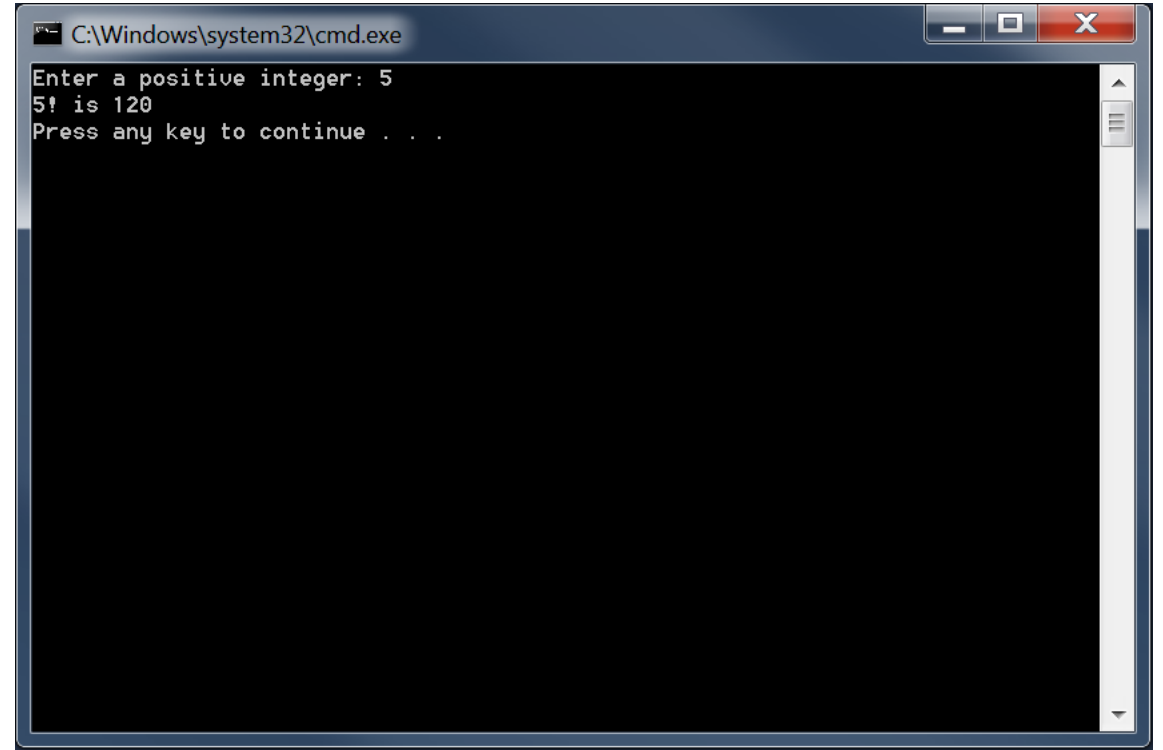
```
C:\Windows\system32\cmd.exe
Enter a positive integer: 4
4! is 24
Press any key to continue . . .
```



A screenshot of a Windows command prompt window. The title bar shows the path 'C:\Windows\system32\cmd.exe'. The window has standard minimize, maximize, and close buttons. The text inside the window is as follows:

```
Enter a positive integer: 1
1! is 1
Press any key to continue . . .
```

The window has a vertical scrollbar on the right side.



A screenshot of a Windows command prompt window. The title bar shows the path 'C:\Windows\system32\cmd.exe'. The window has standard minimize, maximize, and close buttons. The text inside the window is as follows:

```
Enter a positive integer: 5
5! is 120
Press any key to continue . . .
```

The window has a vertical scrollbar on the right side.