

# OS Lab Assignment - 16

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Section -: C

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Subject -: Operating System Lab (BCSC 0803)

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NOTE: [Github link for Script](#)

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**# Write a shell script that print factorial of given number.**

```
#!/bin/bash

# For run this shell script use syntax in terminal "sh Factorial.sh"

# This is for clear all running statement in terminal
clear

echo "-----"
echo "\t Factorial of given Number"
echo "-----"

read -p "Please enter a number: " number
fact=1

count=$number

while [ $count -gt 0 ]
do
    fact=$(( $fact * $count ))
    count=$(( $count - 1 ))
done

echo
echo "Factorial of $number is $fact"
echo "-----"
echo
echo "THANK YOU !"
```

**OUTPUT:**

```
root@kali: /home/ldrago/Desktop/BASH/16
-----
Factorial of given Number
-----
Please enter a number: 10
Factorial of 10 is 3628800
-----
THANK YOU !
[ /home/ldrago/Desktop/BASH/16 master ?36 ] [ ✓ < ⚙ < root@kali 01:36:30 AM ]
```