

Experiment No 10

43  
Date 5/10/20  
Roll no: A0

Aim: write a shell script to find factorial of a given number.

Theory:

What is shell?

Technically speaking in UNIX language, it is an interface between the user and operating system service. A shell provides user with an interface that not only accepts human-readable commands but also executes them.

An operating system consists of many parts, but the 2 core parts are the kernel and shell, we know that the kernel is like the atom of the operating system, the sole heart of the operating system. The kernel works as a mediator between the software and hardware.

Program

```
#!/bin/bash  
echo "enter a number"  
read num
```

⑤

Experiment No 10

Date 21/10/23

Roll no: A0

Write a shell script to find  
factorial of a number

enter a number

4

Factorial of 4 is 24.

What is shell?

~~Ques~~  
21/10/23

Operating system consists of many  
parts but the core parts are the  
kernel and shell, we know that the  
kernel is like the heart of the operating  
system, the sole heart of the operating  
system. The kernel works as a mediator  
between the software and hardware.



```
fact = 1
while [ $num -ge 1 ]
do
fact = 'expr $fact \* $num'
num = 'expr $num - 1'
done
echo "factorial of $n is $fact"
```

conclusion: Hence we have written a shell script to find factorial of given number.

