

# Don Bosco Institute Of Technology

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Batch:-C

Experiment No. 5

**Aim:** Introduction to Tcl Programming

**Lab Outcome:** ITL401.2 (Demonstrate the installation and configuration of network simulator.)

**Submission:**

1) Write a program to print the factorial of a number, where the number is accepted as input.

->

CODE:-

```
1 # For Getting Input From The User
2 puts "Enter a number:"
3 set num [gets stdin]
4
5 # For Calculating Factorial
6 set result 1
7 for {set i 1} {$i <= $num} {incr i} {
8     set result [expr $result * $i]
9 }
10
11 # For Printing Output
12 puts "Factorial of $num is: $result"
13
```

Output :-

```
ubuntu@ubuntu-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ ns ns1.tcl
Enter a number:
10
Factorial of 10 is: 3628800
ubuntu@ubuntu-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ ns ns1.tcl
Enter a number:
5
Factorial of 5 is: 120
ubuntu@ubuntu-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$
```

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2) Write a program, read a string stored in the file and write it two times into another file.

->

```
1 # Open the input file for reading
2 set myFile [open "Hello.txt" r]
3
4 # Read the contents of the file into a variable
5 set myString [read $myFile]
6
7 # Close the input file
8 close $myFile
9
10 # Open the output file for writing
11 set OutFile [open "outputFile.txt" w]
12
13 # Write the input string to the output file twice
14 puts $OutFile $myString
15 puts $OutFile $myString
16
17 # Close the output file
18 close $OutFile
19 puts "Successfully Copied"
```

Output :-

```
ubuntu@ubuntu-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ ls
'56_Exp3 CN.docx'  56_Exp8.odt      Desktop  Downloads  Exp6_56.odt  Hello.txt
56_Exp5.odt       delete_python_files.sh  Documents editor      file.txt     IMEX.py
ubuntu@ubuntu-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ cat Hello
cat: Hello: No such file or directory
ubuntu@ubuntu-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ cat Hello.txt
Hi I am Sumit
ubuntu@ubuntu-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ ns ns3.tcl
Successfully Copied
ubuntu@ubuntu-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$ cat outputFile.txt
Hi I am Sumit

Hi I am Sumit
ubuntu@ubuntu-Victus-by-HP-Gaming-Laptop-15-fa0xxx:~$
```

**Conclusion:** Thus we have written our first tcl script and executed it successfully in ns2.