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Semester - 3

Course- BTECH (CSE)

Batch – B

DCCN LAB WORK

Aim :- Create a network consisting of three nodes n0 to n2 and add a traffic link to n0-n1 and n0-n2 by using TCL scripts. Prepare a word document, it should include source code, and output.

Code :-

```
set ns [ new Simulator ]
set nf [open out.nam w]
$ns namtrace-all $nf
proc finish { } {
global ns nf
$ns flush-trace
close $nf
exec nam -a out.nam &
exit 0
}
```

```
set n0 [$ns node]
set n1 [$ns node]
set n2 [$ns node]
$ns duplex-link $n0 $n1 1Mb 10ms DropTail
$ns duplex-link $n0 $n2 1Mb 10ms DropTail
set udp0 [new Agent/UDP]
$ns attach-agent $n0 $udp0
set cbr0 [new Application/Traffic/CBR]
$cbr0 set packetSize 500
$cbr0 set interval 0.005
$cbr0 attach-agent $udp0
set null0 [new Agent/Null]
$ns attach-agent $n1 $null0
$ns connect $udp0 $null0
set udp1 [new Agent/UDP]
$ns attach-agent $n0 $udp1
set cbr1 [new Application/Traffic/CBR]
$cbr1 set packetSize 500
$cbr1 set interval 0.005
$cbr1 attach-agent $udp1
set null1 [new Agent/Null]
$ns attach-agent $n2 $null1
```

$ns connect $udp1 $null1

$ns at 0.5 "$cbr0 start"

$ns at 4.5 "$cbr0 stop"

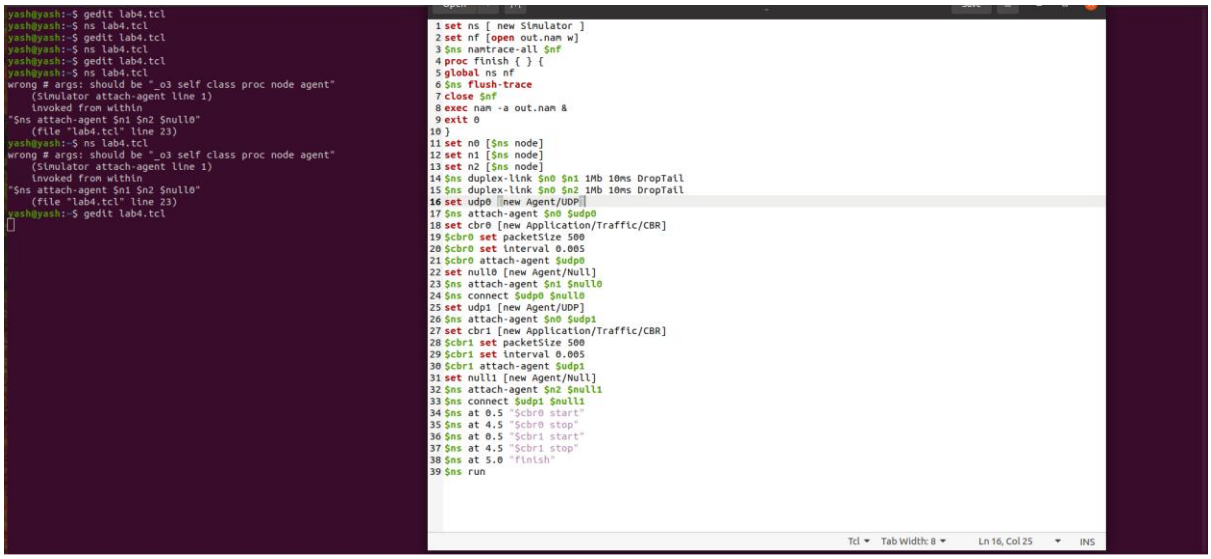
$ns at 0.5 "$cbr1 start"

$ns at 4.5 "$cbr1 stop"

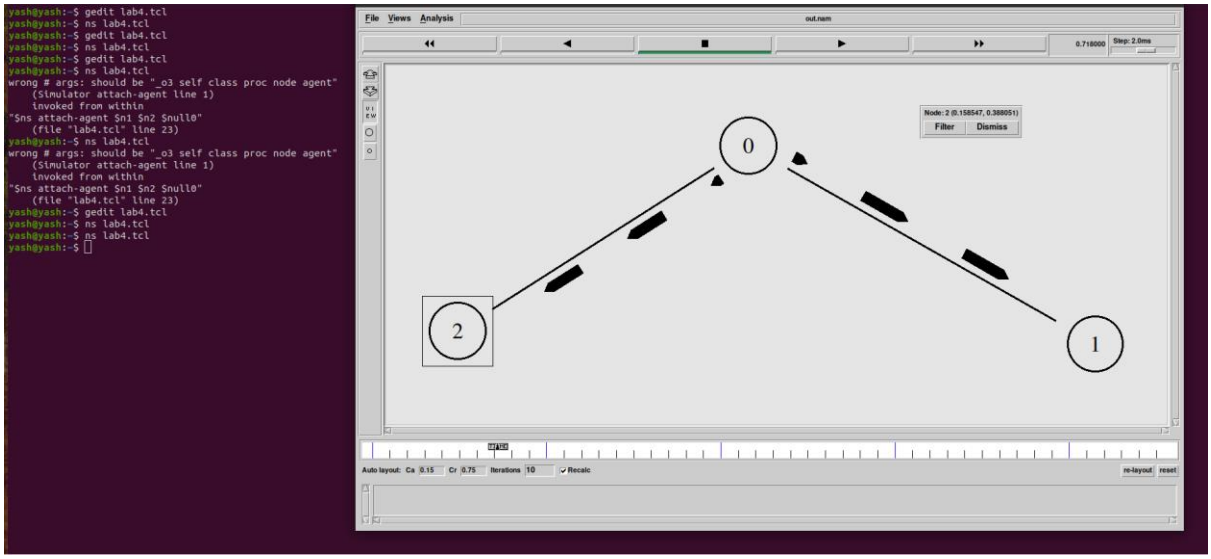
$ns at 5.0 "finish"

$ns run

Code Snippet:-



Code Output:-


yash@yash:~$ gedit lab4.tcl
yash@yash:~$ ns lab4.tcl
yash@yash:~$ gedit lab4.tcl
yash@yash:~$ ns lab4.tcl
yash@yash:~$ gedit lab4.tcl
yash@yash:~$ ns lab4.tcl
wrong # args: should be "_o3 self class proc node agent"
(Simulator attach-agent line 1)
invoked from within
"$ns attach-agent $n1 $n2 $null0"
(file "lab4.tcl" line 23)
yash@yash:~$ ns lab4.tcl
wrong # args: should be "_o3 self class proc node agent"
(Simulator attach-agent line 1)
invoked from within
"$ns attach-agent $n1 $n2 $null0"
(file "lab4.tcl" line 23)
yash@yash:~$ gedit lab4.tcl
yash@yash:~$ ns lab4.tcl
yash@yash:~$ ns lab4.tcl
yash@yash:~$
File Views Analysis
out.nam
0.718000
Step: 2.0ms
Node: 2 (0.158547, 0.380051)
Filter
Dismiss
0
1
2
Auto layout: Ca 0.15 Cr 0.75 Iterations 10 Recalc
re-layout
reset