[2CEIT503 COMPUTER NETWORKS]

Practical: 7

AIM- Implementation of .tcl script in Ns2.

- a) Write a tcl script to add two nodes and one link (example.tcl).
- b) Modify example.tcl such that node n0 sends data to node n1.

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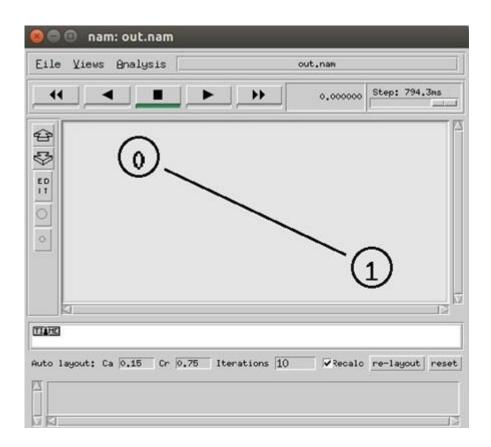
Batch: 5C-1



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a). Write a tcl script to add two nodes and one link.

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 out.nam &
exit 0 } set n0
[\$ns node] set n1
[\$ns node]
\$ns duplex-link \$n0 \$n1 1Mb 10ms DropTail
\$ns at 5.0 "finish"
\$ns run



b). Example1b.tcl

```
#Create a simulator object set
ns [new Simulator]
#Open the nam trace file set
nf [open out.nam w] $ns
namtrace-all $nf
#Define a 'finish' procedure
proc finish {} { global ns nf $ns
flush-trace
       #Close the trace file
     close $nf
       #Execute nam on the trace file
     exec nam out.nam &
     exit 0
}
#Create two nodes set
n0 [$ns node] set n1
[$ns node]
#Create a duplex link between the nodes
$ns duplex-link $n0 $n1 1Mb 10ms DropTail
#Create a UDP agent and attach it to node n0 set
udp0 [new Agent/UDP]
$ns attach-agent $n0 $udp0
# Create a CBR traffic source and attach it to udp0 set
cbr0 [new Application/Traffic/CBR]
$cbr0 set packetSize 500
$cbr0 set interval 0.005
$cbr0 attach-agent $udp0
#Create a Null agent (a traffic sink) and attach it to node n1 set
null0 [new Agent/Null] $ns
attach-agent $n1 $null0
#Connect the traffic source with the traffic sink
$ns connect $udp0 $null0
#Schedule events for the CBR agent
```

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\$ns at 0.5 "\$cbr0 start"

\$ns at 4.5 "\$cbr0 stop"

#Call the finish procedure after 5 seconds of simulation time

\$ns at 5.0 "finish"

#Run the simulation

\$ns run

