**[2CEIT503: COMPUTER NETWORK]**

Practical: 9



**AIM: Define a ring topology of ten nodes for a dynamic network where the routing adjusts to a link failure.**

**Department of Computer**

**Engineering/Information Technology**

set ns [new Simulator]

$ns rtproto DV

set nf [open p9out.nam w]

$ns namtrace-all $nf

proc finish {} {

global ns nf

$ns flush-trace

close $nf

exec nam p9out.nam

exit 0

}

for {set i 0} {$i<10} {incr i} {

set n($i) [$ns node]

}

for {set i 0} {$i<10} {incr i} {

$ns duplex-link $n($i) $n([expr ($i+1)%10]) 1Mb 10ms DropTail

}

set udp0 [new Agent/UDP]

$ns attach-agent $n(0) $udp0

set cbr0 [new Application/Traffic/CBR]

$cbr0 attach-agent $udp0

set null0 [new Agent/Null]

$ns attach-agent $n(7) $null0

$ns connect $udp0 $null0

$ns rtmodel-at 1.0 down $n(9) $n(8)

$ns rtmodel-at 2.0 up $n(9) $n(8)

$ns at 0.5 "$cbr0 start"

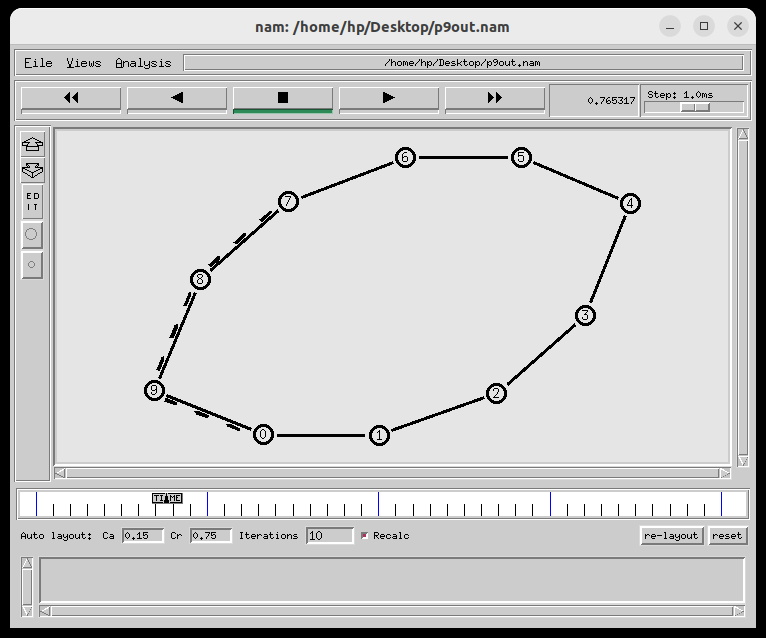
$ns at 4.5 "$cbr0 stop"

$ns at 4.0 "finish"

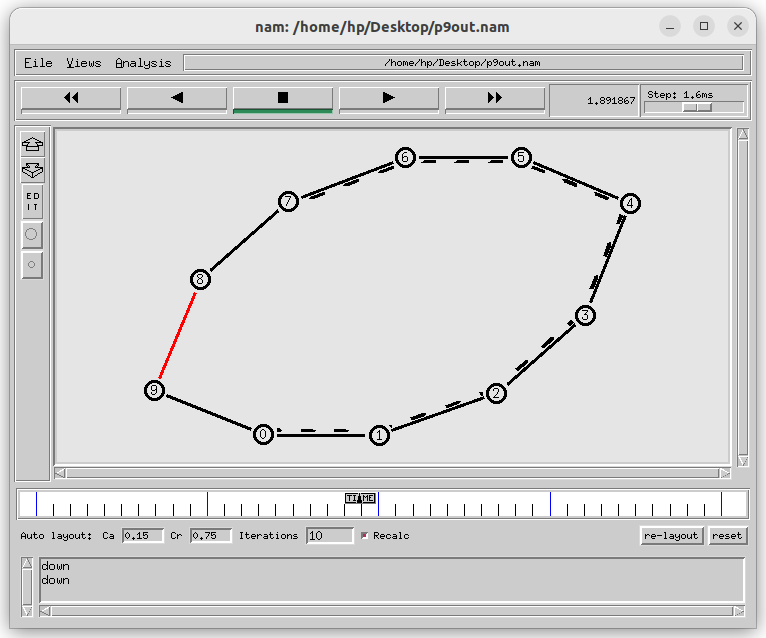
$ns run

**Output:**

Here packet is transfer from node 0 to node 7.

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Link is fail between node 8 and node 9.

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