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# Experiment no 4
# Aim : To write TCL srcipt for transmission between mobile nodes using TCP
connections.
# jaykumar Devidas Bengal
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# Roll no : 43
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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]
set n2 [$ns node]

$ns duplex-link $n0 $n1 10Mb 10ms DropTail
$ns duplex-link $n0 $n2 10Mb 10ms DropTail

set tcp0 [new Agent/TCP]
set tcp1 [new Agent/TCP]
set sink1 [new Agent/TCPSink]
set sink2 [new Agent/TCPSink]
$ns attach-agent $n0 $tcp0
$ns attach-agent $n0 $tcp1
$ns attach-agent $n1 $sink1
$ns attach-agent $n2 $sink2

$ns connect $tcp0 $sink1
$ns connect $tcp1 $sink2

set ftp1 [new Application/FTP]
$ftp1 attach-agent $tcp0

set ftp2 [new Application/FTP]
$ftp2 attach-agent $tcp1

$ns at 0.2 "$ftp1 start"
$ns at 4.5 "$ftp1 stop"

$ns at 0.2 "$ftp2 start"
$ns at 4.5 "$ftp2 stop"
$ns at 5.0 "finish"
$ns run

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