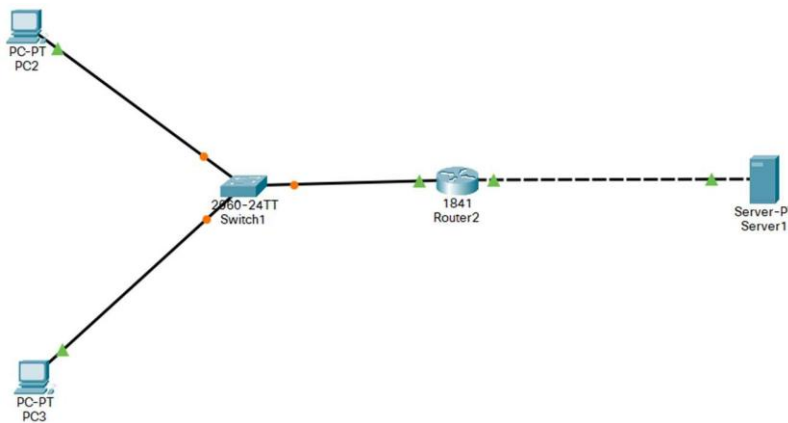
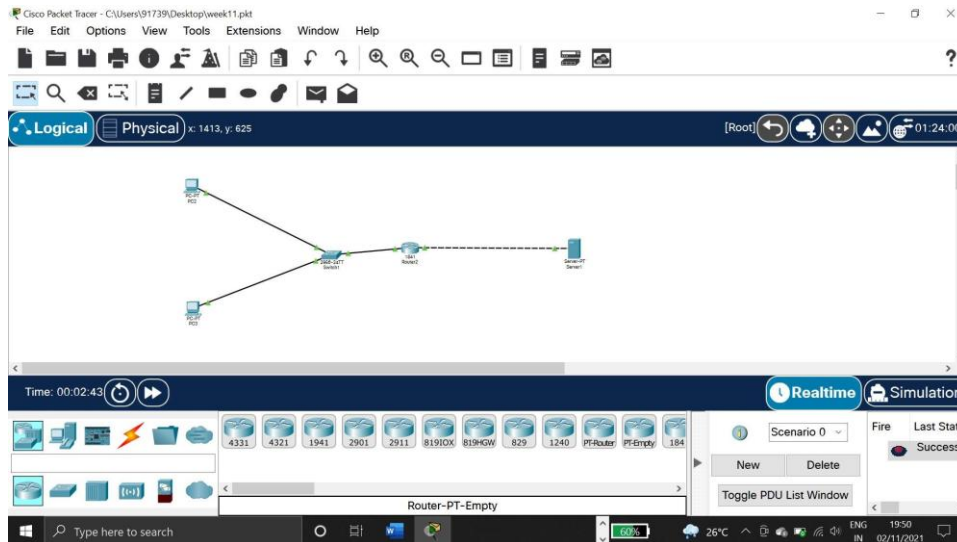


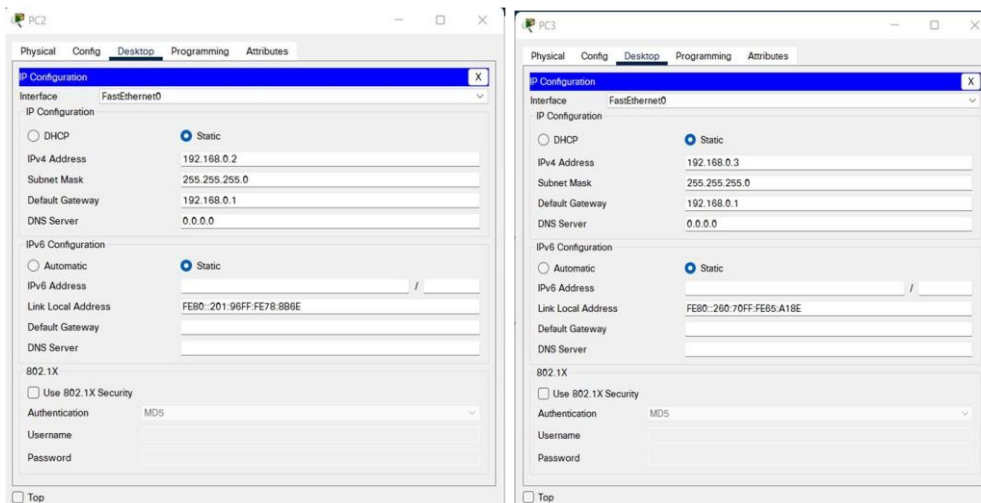
WEEK 11 PROGRAMS

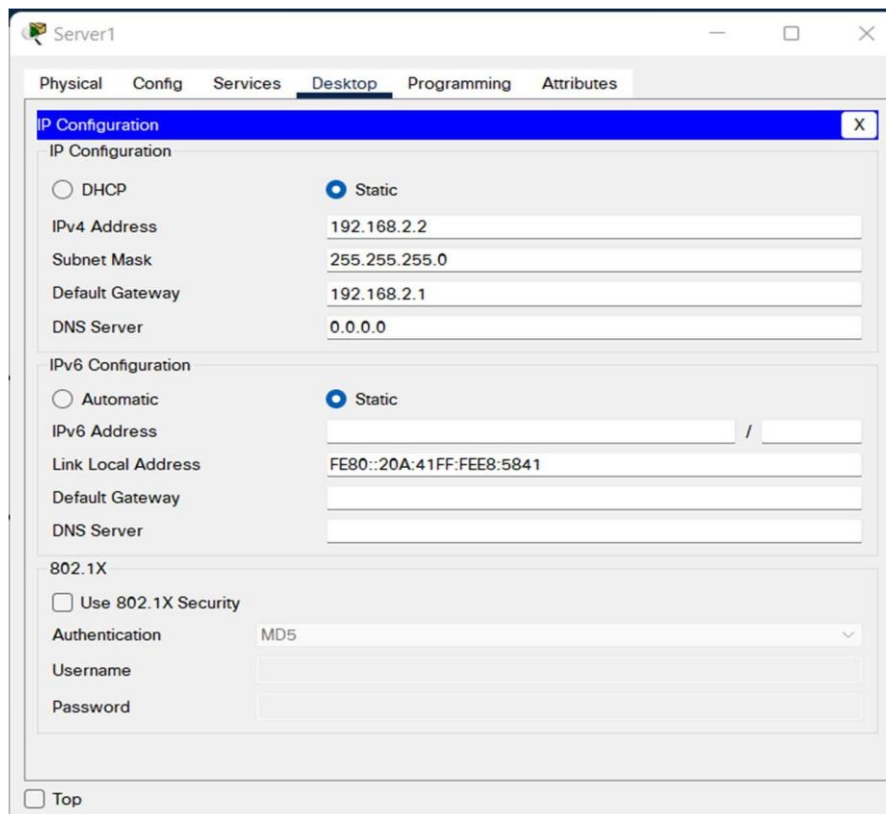
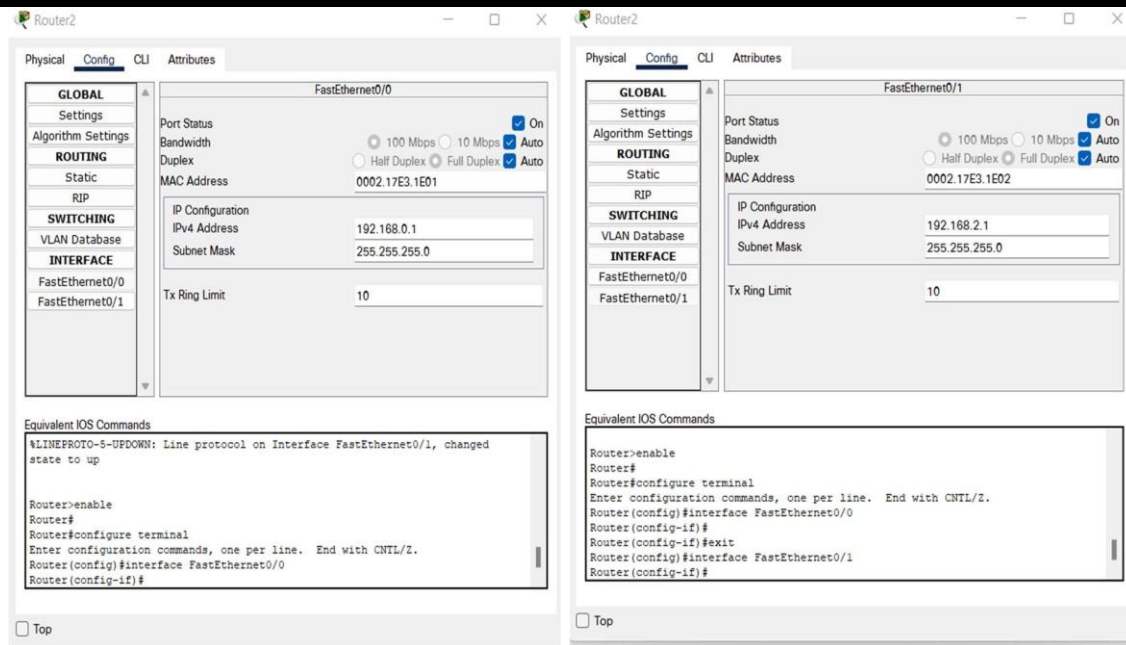
AIM: Configuring any two application layer protocols using packet tracer.

CONFIGURATION OF FTP APPLICATION LAYER PROTOCOL USING CISCO PACKET TRACER



Build the network topology





Email Services:

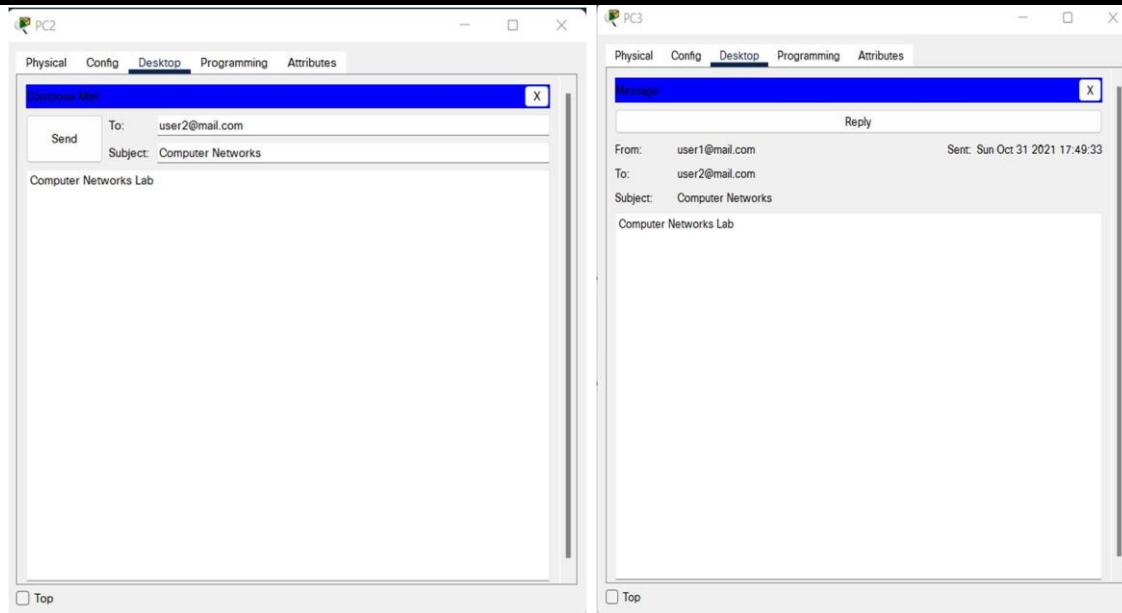
Step 1:- Build the network topology:

Step 2:- Configure IP addresses on the **PCs** and the **Mail Server**.

Step 3:- Now configure **mail clients** on the **PCs** and **mail service** on the **generic server**.

Click on **PC0**. Go to its **Desktop** tab, and click on **Email**. Configure the email client by filling in the user, server and login information. Be sure to **Save**.

Step 4 :- Lastly test the email service. Go to **PC0 email** client, **compose** an email and **send** its to **PC1 email** address



FTP:

Step 1:- Build the network topology.

Step 2:- Configure static IP addresses on the System and the server.

System1: IP address: 192.168.1.1 **Subnet Mask:** 255.255.255.0

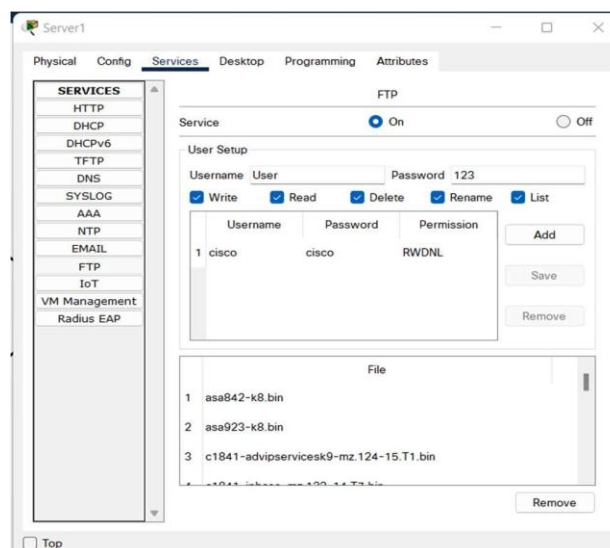
System2: IP address: 192.168.1.2 **Subnet Mask:** 255.255.255.0

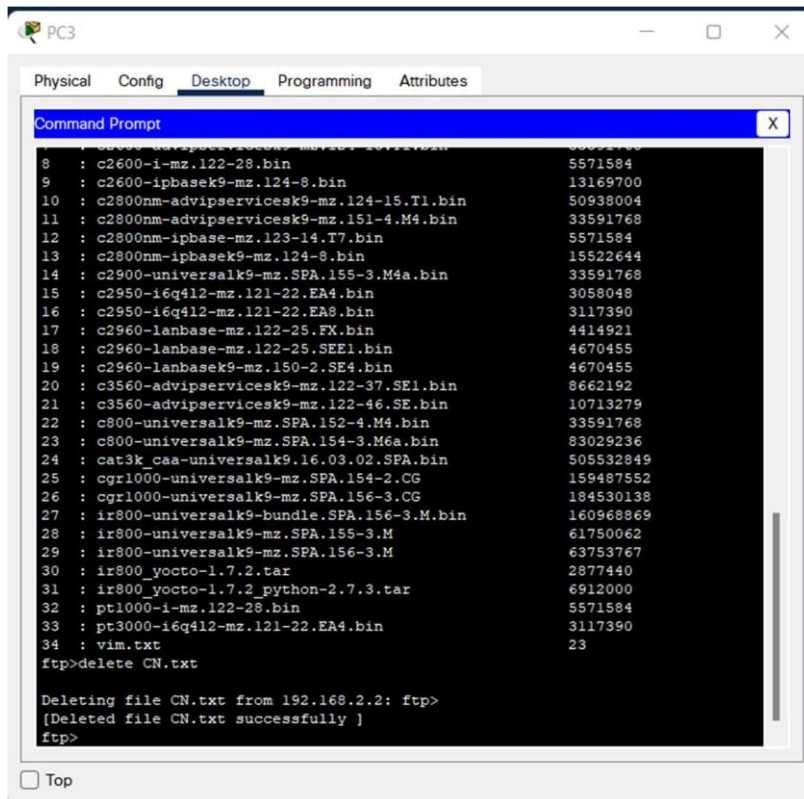
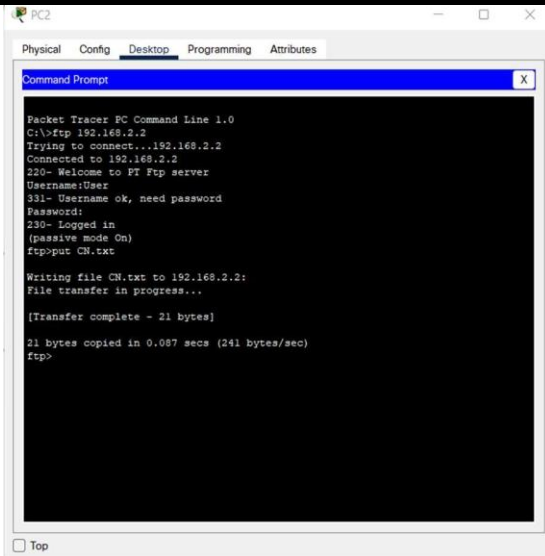
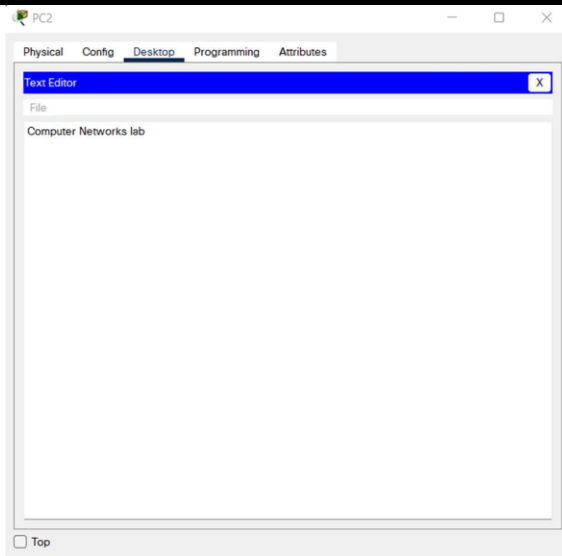
Server: IP address: 192.168.1.2 **Subnet Mask:** 255.255.255.0

Step 3:- Now try using an **FTP client** built in the System to send files to an **FTP server** configured in the Server.

Step 4:- Create a file in the System1 then **upload** it to the server using **FTP**.

Step 5:- Now upload the file from the System1 to the server using FTP.

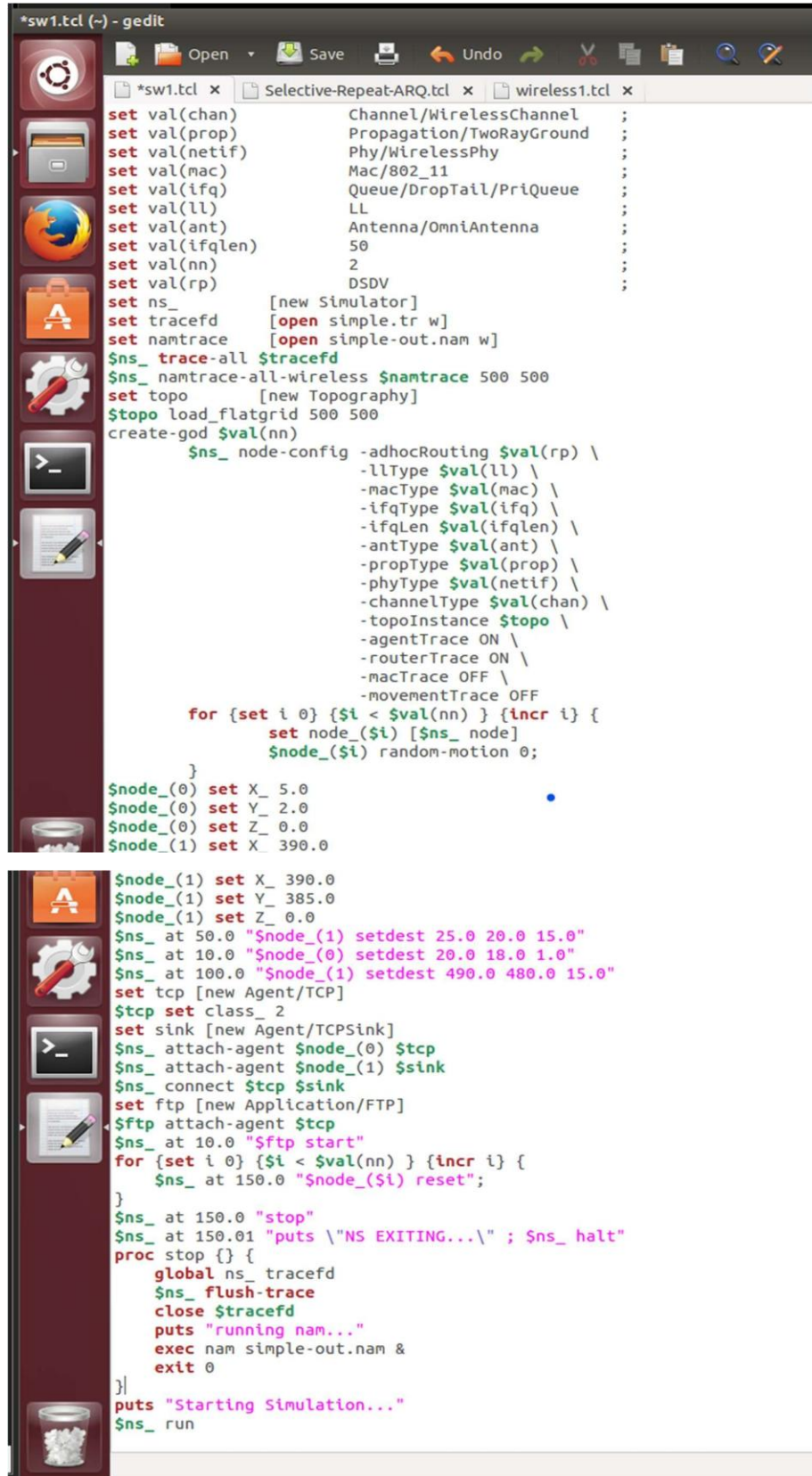




WEEK 12 PROGRAMS

AIM : Implementation of Wireless Networks using NS2 Simulation Tool.

PROGRAM :



```
*sw1.tcl (-) - gedit
set val(chan) Channel/WirelessChannel ;
set val(prop) Propagation/TwoRayGround ;
set val(netif) Phy/WirelessPhy ;
set val(mac) Mac/802_11 ;
set val(ifq) Queue/DropTail/PriQueue ;
set val(ll) LL ;
set val(ant) Antenna/OmniAntenna ;
set val(ifqlen) 50 ;
set val(nn) 2 ;
set val(rp) DSDV ;
set ns_ [new Simulator]
set tracefd [open simple.tr w]
set namtrace [open simple-out.nam w]
$ns_ trace-all $tracefd
$ns_ namtrace-all-wireless $namtrace 500 500
set topo [new Topography]
$topo load_flatgrid 500 500
create-god $val(nn)
$ns_ node-config -adhocRouting $val(rp) \
    -llType $val(ll) \
    -macType $val(mac) \
    -ifqType $val(ifq) \
    -ifqLen $val(ifqlen) \
    -antType $val(ant) \
    -propType $val(prop) \
    -phyType $val(netif) \
    -channelType $val(chan) \
    -topoInstance $topo \
    -agentTrace ON \
    -routerTrace ON \
    -macTrace OFF \
    -movementTrace OFF
for {set i 0} {$i < $val(nn)} {incr i} {
    set node_($i) [$ns_ node]
    $node_($i) random-motion 0;
}
$node_(0) set X_ 5.0
$node_(0) set Y_ 2.0
$node_(0) set Z_ 0.0
$node_(1) set X_ 390.0
$node_(1) set Y_ 385.0
$node_(1) set Z_ 0.0
$ns_ at 50.0 "$node_(1) setdest 25.0 20.0 15.0"
$ns_ at 10.0 "$node_(0) setdest 20.0 18.0 1.0"
$ns_ at 100.0 "$node_(1) setdest 490.0 480.0 15.0"
set tcp [new Agent/TCP]
$tcp set class_ 2
set sink [new Agent/TCPSink]
$ns_ attach-agent $node_(0) $tcp
$ns_ attach-agent $node_(1) $sink
$ns_ connect $tcp $sink
set ftp [new Application/FTP]
$ftp attach-agent $tcp
$ns_ at 10.0 "$ftp start"
for {set i 0} {$i < $val(nn)} {incr i} {
    $ns_ at 150.0 "$node_($i) reset";
}
$ns_ at 150.0 "stop"
$ns_ at 150.01 "puts \"NS EXITING...\" ; $ns_ halt"
proc stop {} {
    global ns_ tracefd
    $ns_ flush-trace
    close $tracefd
    puts "running nam..."
    exec nam simple-out.nam &
    exit 0
}
puts "Starting Simulation..."
$ns_ run
```

