**PROGRAM 4**

set ns [new Simulator]

set tf [open pg4.tr w]

$ns trace-all $tf

set topo [new Topography]

$topo load\_flatgrid 1000 1000

set nf [open pg4.nam w]

$ns namtrace-all-wireless $nf 1000 1000

$ns node-config -adhocRouting DSDV \

-llType LL \

-macType Mac/802\_11 \

-ifqType Queue/DropTail \

-ifqLen 50 \

-phyType Phy/WirelessPhy \

-channelType Channel/WirelessChannel \

-propType Propagation/TwoRayGround \

-antType Antenna/OmniAntenna \

-topoInstance $topo \

-agentTrace ON \

-routerTrace ON

create-god 3

set n0 [$ns node]

set n1 [$ns node]

set n2 [$ns node]

$n0 label "src/tcp0"

$n1 label "sink1/tcp1"

$n2 label "sink2"

$n0 set X\_ 50

$n0 set Y\_ 50

$n0 set Z\_ 0

$n1 set X\_ 100

$n1 set Y\_ 100

$n1 set Z\_ 0

$n2 set X\_ 200

$n2 set Y\_ 200

$n2 set Z\_ 0

$ns at 0.1 "$n0 setdest 50 50 15"

$ns at 0.1 "$n1 setdest 100 100 25"

$ns at 0.1 "$n2 setdest 600 600 25"

$ns at 100 "$n1 setdest 250 250 15"

$ns at 190 "$n1 setdest 70 70 15"

set tcp0 [new Agent/TCP]

set tcp1 [new Agent/TCP]

set ftp0 [new Application/FTP]

set ftp1 [new Application/FTP]

$ns attach-agent $n0 $tcp0

$ns attach-agent $n1 $tcp1

$ftp0 attach-agent $tcp0

$ftp1 attach-agent $tcp1

set sink1 [new Agent/TCPSink]

set sink2 [new Agent/TCPSink]

$ns attach-agent $n1 $sink1

$ns attach-agent $n2 $sink2

$ns connect $tcp0 $sink1

$ns connect $tcp1 $sink2

proc finish {} {

global nf tf ns

ns flush-trace

close $nf

close $tf

exec nam pg4.nam &

exit 0

}

$ns at 5 "$ftp0 start"

$ns at 5 "$ftp1 start"

$ns at 250 "finish"

$ns run