DISTANCE VECTOR ROUTING

```
set ns [new Simulator]

#To initialize nam file
set namfile [open out.nam w]
$ns namtrace-all $namfile


#To define Finish procedure
proc finish {} {
global ns namfile
$ns flush-trace
close $namfile
exec nam out.nam &
exit 0
}

# Initializing Nodes
set n0 [$ns node]
set n1 [$ns node]
set n2 [$ns node]
set n3 [$ns node]

# Setting links between nodes

$ns duplex-link $n0 $n1 5Mb 10ms DropTail
$ns duplex-link $n1 $n3 5Mb 10ms DropTail
$ns duplex-link $n0 $n2 10Mb 10ms DropTail
$ns duplex-link $n2 $n3 10Mb 10ms DropTail
$ns duplex-link $n1 $n2 10Mb 10ms DropTail

# Creating traffic : creating a TCP agent and a sink agent.
set tcp [new Agent/TCP]
$ns attach-agent $n0 $tcp

set sink [new Agent/TCPSink]
$ns attach-agent $n3 $sink

$ns connect $tcp $sink
```

```
set cbr [new Application/Traffic/CBR]
$cbr attach-agent $tcp
$cbr set packetsize_ 1000
$cbr set rate_ 1Mb

#breaking link n1-n3 and again making it working after some time
$ns rtmodel-at 0.5 down $n2 $n3
$ns rtmodel-at 0.8 up $n2 $n3
$ns rtmodel-at 1.0 down $n1 $n3

#usind dvr
$ns rtproto DV

$ns at 0.05 "$cbr start"
$ns at 3.5 "$cbr stop"

$ns at 4.0 "finish"

$ns run
```

OUTPUT :