**SSN College of Engineering, Kalavakkam**

**Department of Computer Science and Engineering**

**UCS1511 NETWORKS LAB**

**Exercise 10: PERFORMANCE EVALUATION OF ROUTING PROTOCOLS**

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**LEARNING OBJECTIVES:**

To write tcl script to evaluate the performance of routing protocols in wired networks and write awk script to calculate the throughput of the network.

**CODE:**

BEGIN {

recvdSize = 0

txsize=0

drpSize=0

startTime = 0

stopTime = 0

thru=0

}

{

event = $1

time = $2

node\_id = $3

pkt\_size = $6

level = $5

# Store start time

if (level == "cbr" && (event == "+" || event == "s") )

{

if (time < startTime)

{

startTime = time

}

txsize++;

}

# Update total received packetsâ€™ size and store packets

arrival time

if (level == "cbr" && event == "r" )

{

if (time > stopTime)

{

stopTime = time

}

recvdSize++

}

if (level == "cbr" && event == "d" )

{

drpSize++

}

}

END {

printf("Average Throughput[kbps] = %.2f\t\ts=%.2f\td=%.2f\tr=%.2f\nStartTime=%.2f\tStopTime=%.2f\n",(recvdSize/(stopTime-startTime)),txsize,drpSize,recvdSize,startTime,stopTime)

}

**Screenshot:**

