NETWORK SIMULATION LAB

WEEK – 10,11,12

DATE:

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ROLL NO: 19R21A05H2

PROBLEM STATEMENT: 10, 11, 12

Implementation of AODV Routing Protocol, DSDV Routing Protocol, AODV Routing Protocol
Program execution of last Three Program:

Step-1:

Go to Examples/Routing/
Copy manet-routing-compare.cc file and paste in scratch folder

Step2:

Then goto terminal
Type these commands to get CSVfiles for 1:OLSR,2-AODV,3-DSDV,4-DSR
./waf --run "scratch/manet-routing-compare --CSVfileName=OLSR --protocol=1"
The above command creates csv file for OLSR
Similarly do the same for AODV, DSDV and DSR as shown below
./waf --run "scratch/manet-routing-compare --CSVfileName=AODV --protocol=2"
ITS FOR AODV

./waf --run "scratch/manet-routing-compare --CSVfileName=DSDV --protocol=3"
ITS FOR DSDV
./waf --run "scratch/manet-routing-compare --CSVfileName=DSR --protocol=4"

Step3:

AFTER CSV FILE ARE GENERATED OPEN ALL TOGETHER AND FOLLOW STEPS AS SHOWN BELOW
1. REMOVE FIRST LINE
2. REPLACE , WITH SPACE ( )
3. SAVE ALL FILES

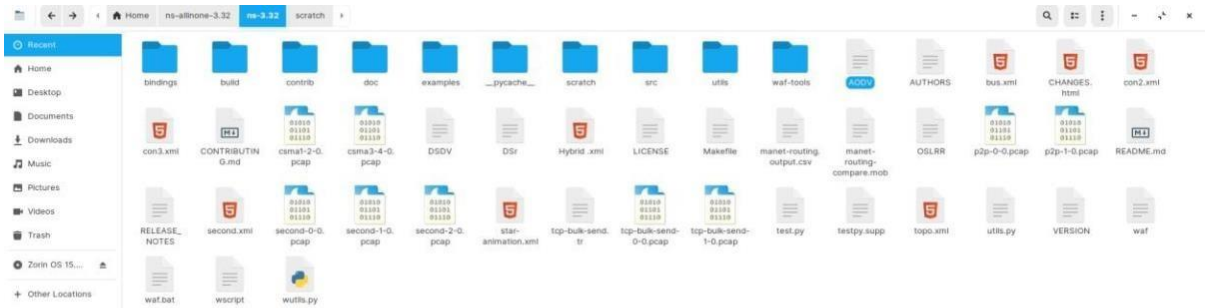
Step4:

Then write a GNUPLOT code as shown below by opening
gedit gnucode.plt

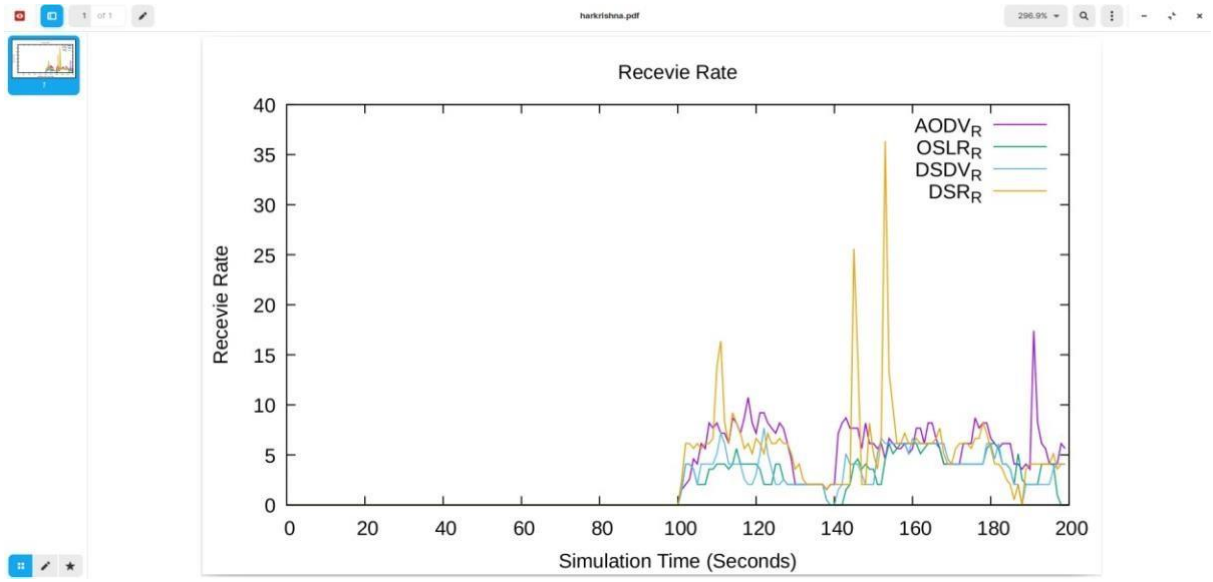
```
set terminal pdf
set output "abhi.pdf"
set title "Recieve Rate"
set xlabel "Simulation Time (Seconds)"
set ylabel "Recieving Rate"

plot "AODV" using 1:2 with lines title "AODV_R" , "OLSR" using 1:2 with lines title "OLSR_R","DSDV" using 1:2 with lines title "DSDV_R","DSR" using 1:2 with lines title "DSR_R"

set title "Packet "
set xlabel "Simulation Time (Seconds)"
set ylabel "Packet Recieved"

plot "AODV" using 1:3 with lines title "AODV_P", "OLSR" using 1:3 with lines title "OLSR_P","DSDV" using 1:3 with lines title "DSDV_P","DSR" using 1:3 with lines title "DSR_P"
```

Final Step:After saving above code with .plt extension
Link to ns-3.32 in terminal and run command which is shown below
gnuplot gnucode.plt

OUTPUT:



FOR RECEVIE RATE:



FOR PACKET: