NS-2 Simulation

Achintya Nath

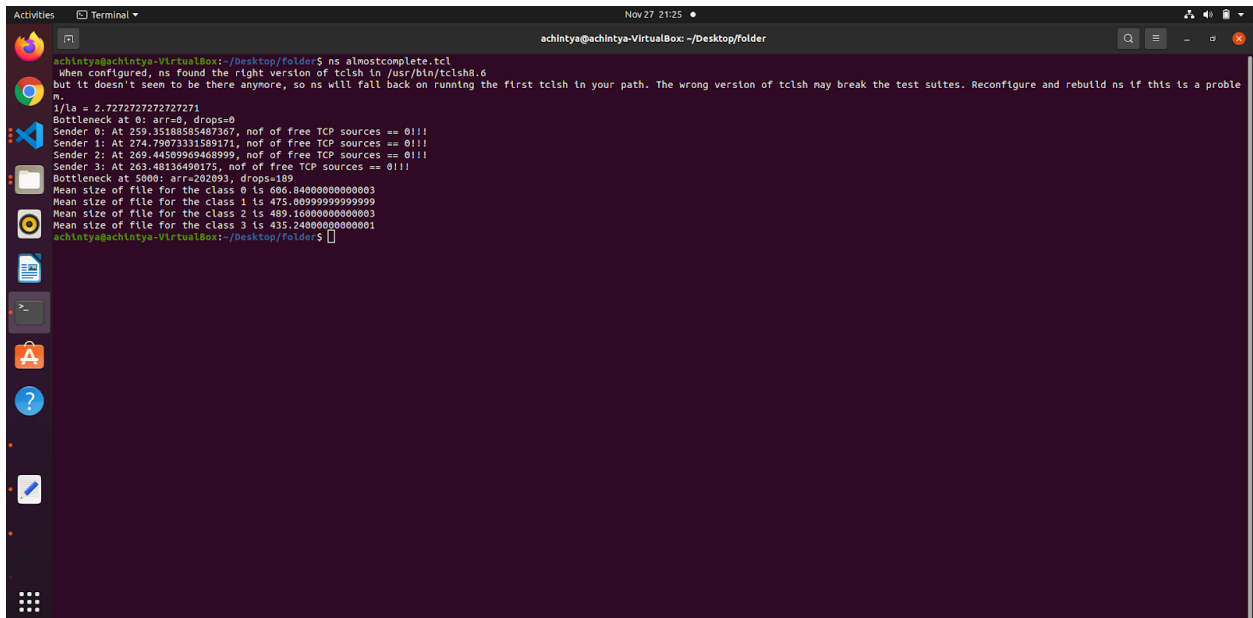The github link to the project is
https://github.com/achintyanath/CSN-341_Network_Simulator
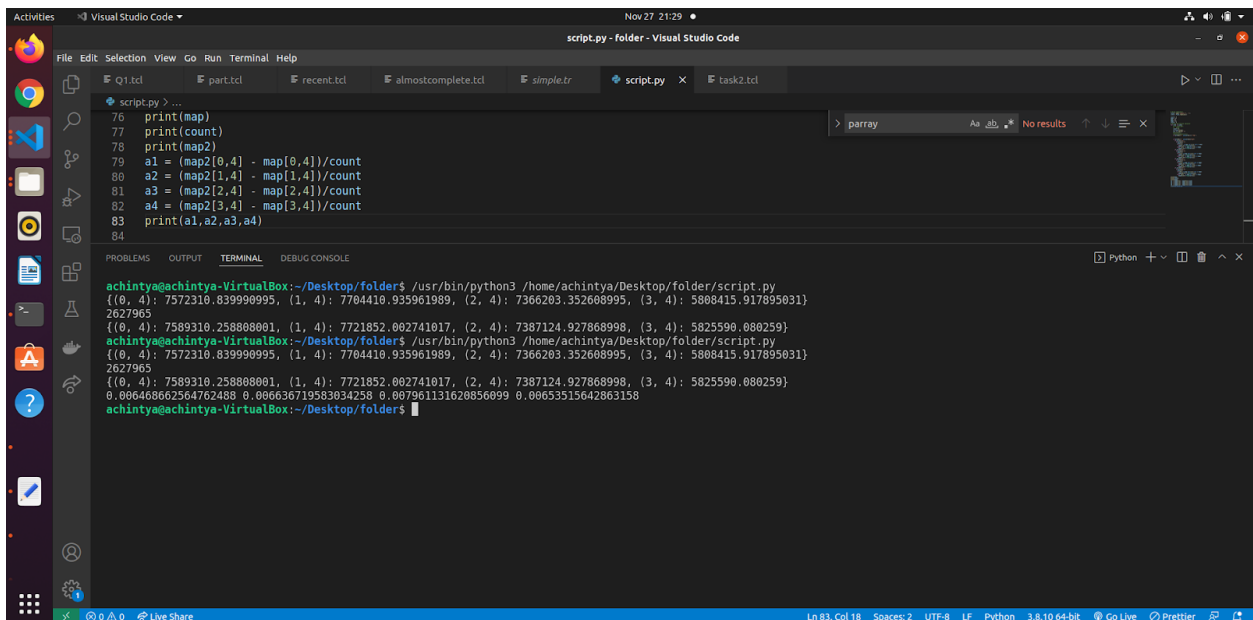
Task 1

We stimulate our result p = 0.1 times
For p = 0.1%

Average Time Delay in every Class :
1. 0.006468662564762488
2. 0.006636719583034258
3. 0.007961131620856099
4. 0.00653515642863158

Average Bandwidth is now :
a.) 0.7504982600956Mbps
b.) 0.5725840835153Mbps
c.) 0.4915482102755Mbps
d.) 0.5327982639780Mbps

Wi/W1 :
1.) 1
2.) 1.0259801800742006403498005839312
3.) 1.2307229726626512438407044381402
4.) 1.0102793835979808102661672255906

For p =0.5

Average Time delay of each class is:
1. 0.01022969990144449
2. 0.011194457725727289
   0.0078335763728402
3. 0.00436541910468866

Average Bandwidth is now :
1. Mean_Size/transmission time :
   a)0.47457110636397914126183660287422
   b)0.33946083795256940743204367661661
   c)0.49955216030927291442102875272 81
   d)0.79761413887162828687814906853867

Wi/W1 :
1.) 1
2.) 1.0943094942742719049476472888537
3.) 0.76576795490687423262695802441992
4.) 0.42673970368106680875650475390967

For p =1%

Average time delay of each class :
1.) 0.02711808690040617
2.) 0.026769680892602146
3.) 0.025271070955415413
4.) 0.018303993447755715
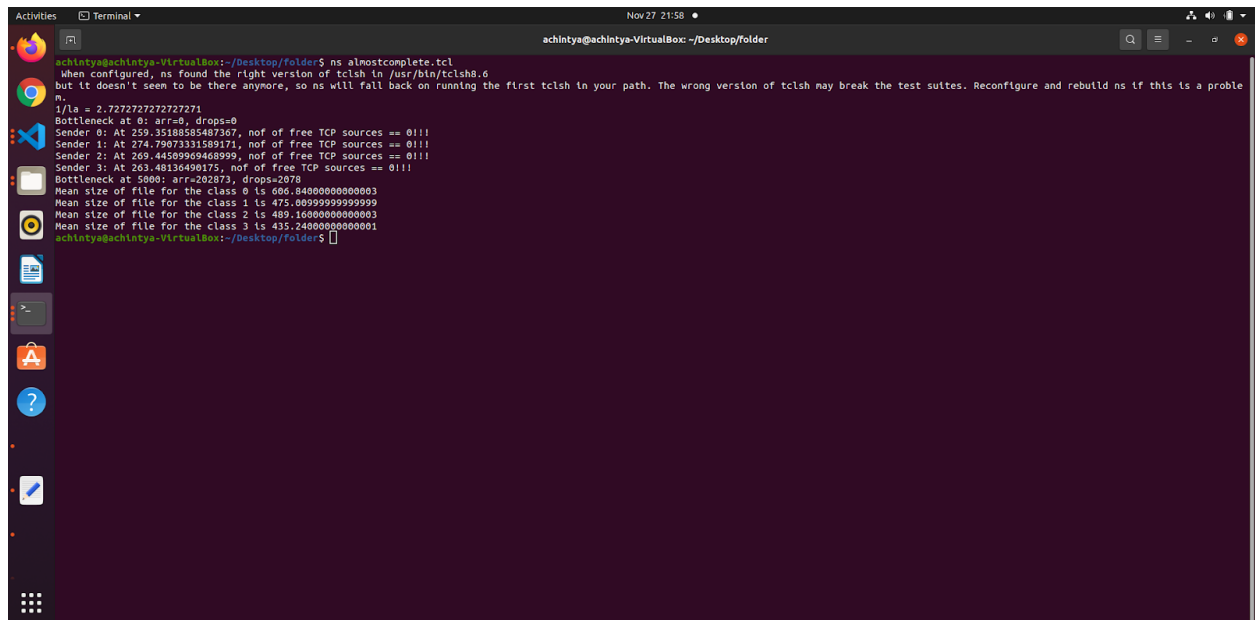
Average bandwidth :
1.) 0.17902147809428581948 Mbps
2.) 0.14195462453383815968Mbps
3.) 0.15485216304857122895Mbps
4.) 0.19022734082255282091Mbps

Wi/W1 :
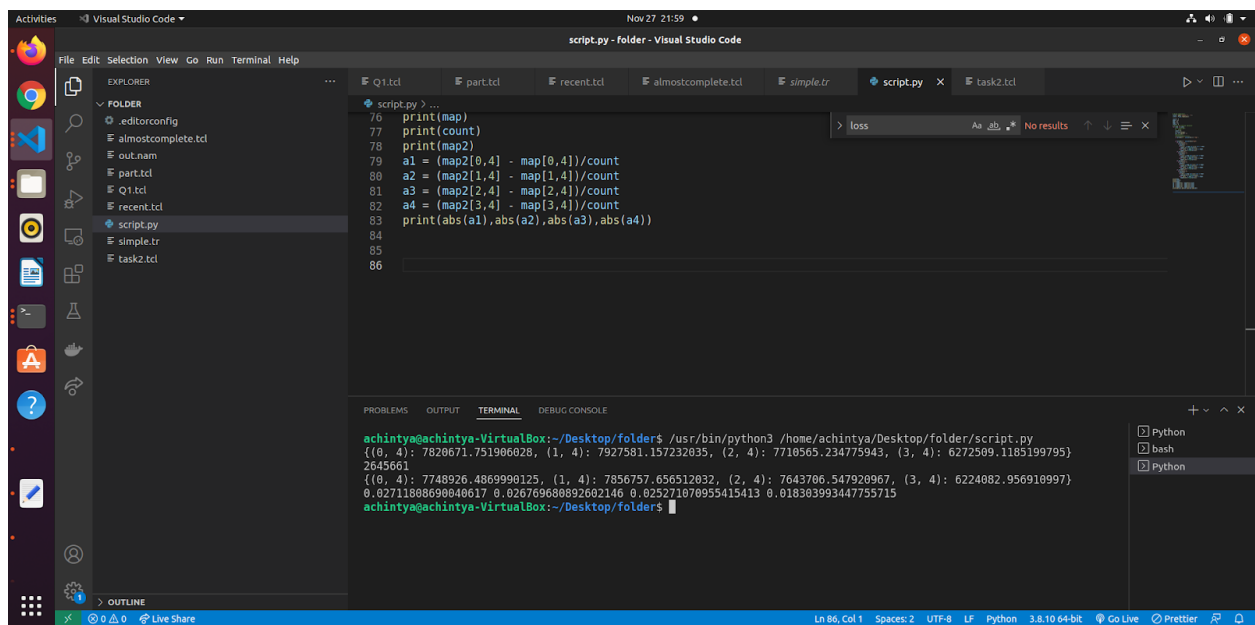5.) 1
6.) 0.9871522644984663197013598839331
7.) 0.931889887668916175806100699941449
8.) 0.6749736260887032175670014323157

p = 5 %

Average time delay of each class:
0.02711808690040617
0.026769680892602146
0.025271070955415413
0.018303993447755715

Average Bandwidth:
a)0.17902147809428573 Mbps
b)0.14195462453383818657794135170018 Mbps
c)0.15485216304857122895888382345229 Mbps
d)0.19022734082255282098551794214314 Mbps

Wi/W1
a.) 1
b.) 0.98715226449644490959581634002506
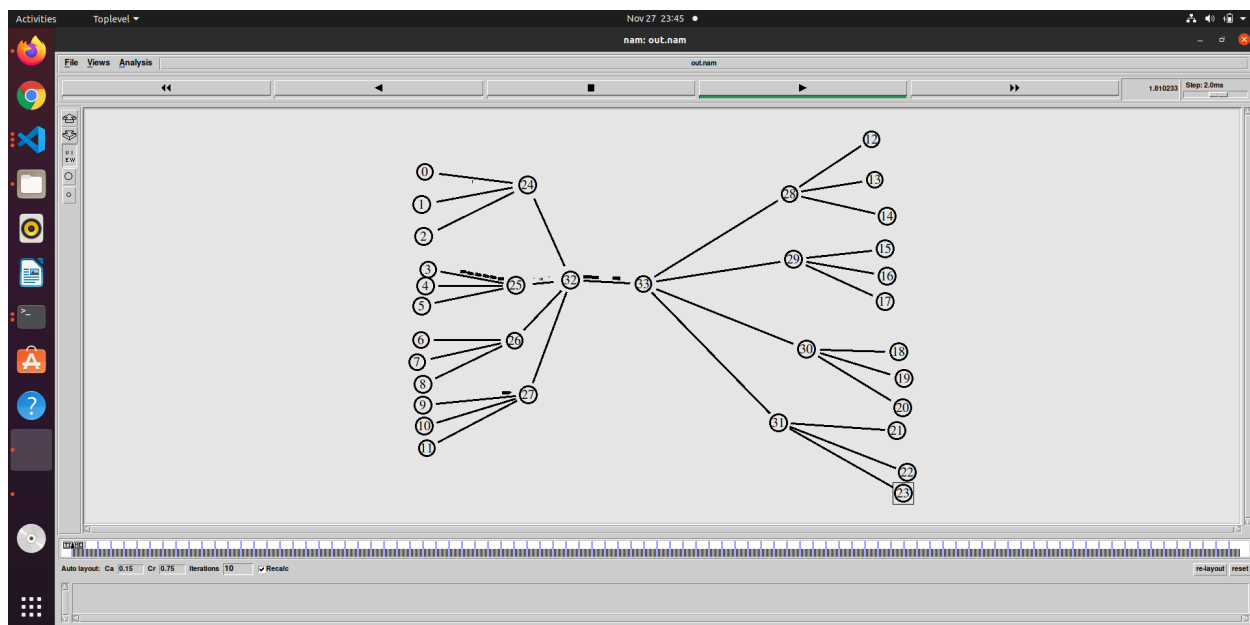c.) 0.93188988766891617580610069941449
d.) 0.67497362608870321756700143232157

Confidence Interval : A confidence interval (CI) is a range of estimates for an unknown parameter. A confidence interval is computed at a designated *confidence level*; the 95% confidence level is most common, but other levels, such as 90% or 99%, are sometimes used. The confidence level represents the long-run proportion of corresponding CIs that contain the true value of the parameter

.
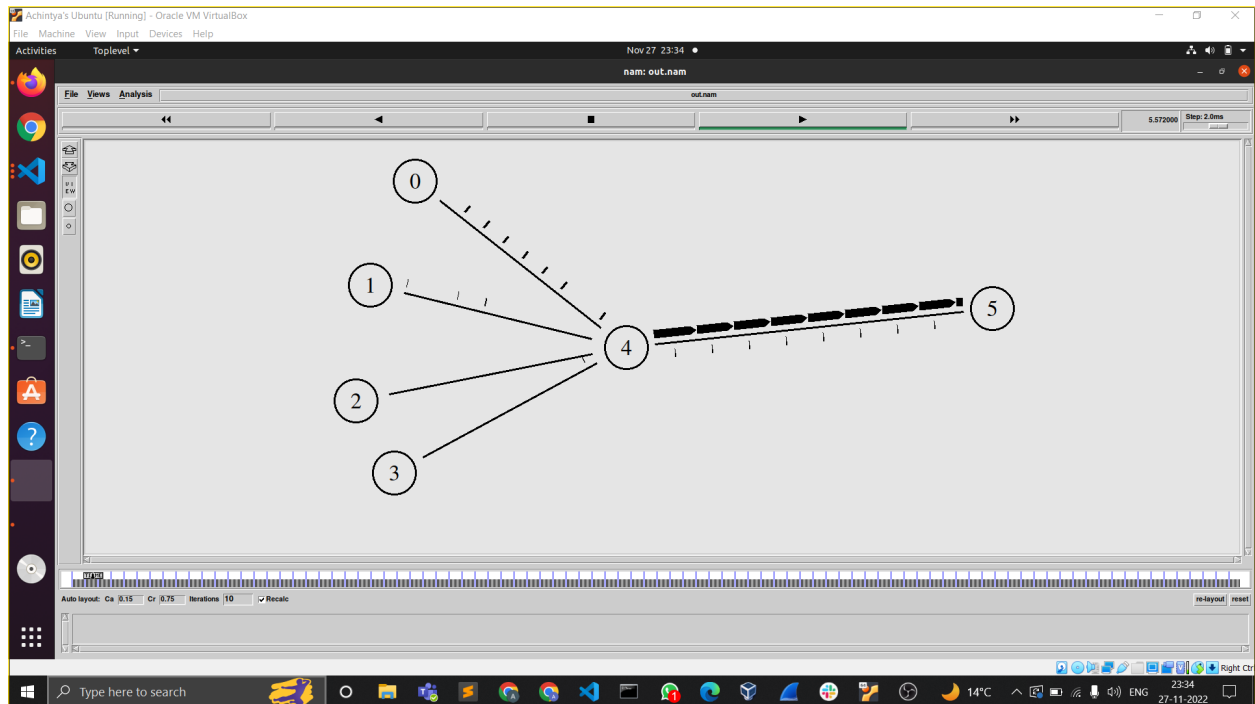
Video Stimulation can be found at the github og the repo

NS-2 Simulation

The video demonstration can be found at the repo