**COMPUTER NETWORKS**

**LAB 3- EVALUATION**

**ROLL NO: CB.EN.U4CSE17458**

Server.py

import pandas as pd

import socket

s = socket.socket()

port = 5003

host = socket.gethostname()

s.bind((host,port))

s.listen(5)

file = pd.read\_csv("Y:/6th sem/Networking/Lab 2/data.txt")

print("Server Running ...")

conn,addr = s.accept()

print("Connected at ",addr)

for i in range(file.shape[0]):

source = file["Source\_IP"][i]

dest = file["Dest\_IP"][i]

send = (file["Packets\_sent"][i])

receive = (file["Packets\_recv"][i])

transmission = file["Source\_IP"].value\_counts()

#print(source," ",dest," ",send," ",receive)

#print(file["Source\_IP"].value\_counts())

conn.send(bytes(source,"utf-8"))

conn.send(bytes(dest,"utf-8"))

conn.send(bytes(send))

conn.send(bytes(receive))

conn.send(bytes(transmission))

# # print(file)

# conn.send(bytes(file))

conn.close()

client.py

import socket

import pandas as pd

s = socket.socket()

host = socket.gethostname()

port = 5003

s.connect((host,port))

source = s.recv(1024).decode("utf-8")

dest = s.recv(1024).decode("utf-8")

sent = s.recv(1024).decode()

receive = s.recv(1024).decode()

transmission = s.recv(1024).decode("utf-8")

# loss = int(sent) - int(receive)

# throughput = int(receive)/int(sent)

print("Source IP: ",source)

print("Destination IP: ",dest)

# print("Sent: ",sent)

# print("Packet Loss: ",loss)

# print("Throughput: ",throughput)

print("Number of transmissions: ",transmission)

# file = s.recv(1024).decode("utf-8")

# li = file.split("\n")

# for i in li:

# string = li.split(" ")

# source = string[0]

# dest = string[1]

# send = string[2]

# receive = string[3]

# transmission = string[3]

# print(source," ",dest," ",send," ",receive)

# for i in range(3):

# source = file["Source\_IP"][i]

# dest = file["Dest\_IP"][i]

# send = (file["Packets\_sent"][i])

# receive = (file["Packets\_recv"][i])

# transmission = file["Source\_IP"].value\_counts()

# print(source," ",dest," ",send," ",receive)

s.close()