COMPUTER NETWORKS

PYTHON ASSIGNMENT -3

Mail Client Program:

from socket import \*

import base64

import time

mailServer = ("216.32.180.170") #Fill in start #Fill in end

serverPort = 25

# Create socket called clientSocket and establish a TCP connection with mailserver

#Fill in start

clientSocket = socket(AF\_INET, SOCK\_STREAM)

clientSocket.connect((mailServer, serverPort))

#Fill in end

recv = clientSocket.recv(1024)

print (recv)

if recv[:3] != (bytes("220")):

print (recv[:3])

print ("220 reply not received from server.")

# Send HELO command and print server response.

heloCommand = "HELO alice.example.com\r\n"

print ("HELO Alice.example.com")

clientSocket.send(bytes(heloCommand))

recv1 = clientSocket.recv(1024)

print (recv1)

if recv1[:3] != (bytes("250")):

print ("250 reply not received from server.")

# Send MAIL FROM command and print server response.

# Fill in start

print ("Mail FROM:aarivalagan@mail.stmarytx.edu")

clientSocket.send(bytes("Mail FROM:aarivalagan@mail.stmarytx.edu\r\n"))

recv1 = clientSocket.recv(1024)

print (recv1)

if recv1[:3] != (bytes("250")):

print ("250 reply not received from server.")

# Fill in end

# Send RCPT TO command and print server response.

# Fill in start

print ("RCPT TO:aarivalagan.stmarytx.edu")

clientSocket.send(bytes("RCPT TO:aarivalagan@mail.stmarytx.edu \r\n"))

recv1 = clientSocket.recv(1024)

print (recv1)

if recv1[:3] != (bytes("250")):

print ("250 reply not received from server.")

# Fill in end

# Send DATA command and print server response.

# Fill in start

print ("DATA")

clientSocket.send(bytes("DATA\r\n"))

recv1 = clientSocket.recv(1024)

print (recv1)

if recv1[:3] != (bytes("354")):

print ("250 reply not received from server.")

# Fill in end

# Send message data.

# Fill in start

print ("Subject: Testing SMTPClient")

print ("TO:aarivalagan@mail.stmarytx.edu")

print ("FROM:aarivalagan@mail.stmarytx.edu\n")

print ("This is the message!!!")

clientSocket.send(bytes("Subject:Testing SMTPClient\r\n","UTF-8"))

clientSocket.send(bytes("TO:aarivalagan@mail.stmarytx.edu \r\n","UTF-8"))

clientSocket.send(bytes("FROM:aarivalagan@mail.stmarytx.edu \r\n\r\n","UTF-8"))

clientSocket.send(bytes("This is the message!!! \r\n","UTF-8"))

# Fill in end

# Message ends with a single period.

# Fill in start

print (".")

clientSocket.send(bytes(".\r\n","UTF-8"))

recv1 = clientSocket.recv(1024)

print (recv1)

if recv1[:3] != (bytes("250","UTF-8")):

print ("250 reply not received from server.")

# Fill in end

# Send QUIT command and get server response.

# Fill in start

print ("QUIT")

clientSocket.send(bytes("QUIT\r\n","UTF-8"))

clientSocket.close()

pass

# Fill in end

Output:

