Computer Networks Assignment 2 NetID - sst390

SMTP Client code:-

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from socket import *
from ssl import *
from sys import * #to take the username and password from command line
import base64 #we need to use this to encode the username and password and send it for
authentication
if (len(argv) < 2):
  print "Usage : smtp.py UserName"
  exit(0)
program,UName = argv
msg = "\r\n I love computer networks"
endmsg = ''\r\n.\r\n''
# Choose a mail server (e.g. Google mail server) and call it mailserver mailserver = #Fill in start #Fill
in end
#Note: Since we have been using GMAIL's SMTP server, inorder to check our code for the same we
need to go
     Google's security settings and allow less secure apps for this code to work and send mail.
mailServerHost = "smtp.nyu.edu"
mailserverPort = 25 #for SSL based SMTP communication
# Create socket called clientSocket and establish a TCP connection with mailserver
sslClientSock = socket(AF_INET, SOCK_STREAM)
sslClientSock.settimeout(10)
sslClientSock.connect((mailServerHost, mailserverPort))
recv = sslClientSock.recv(1024)
print recv
if recv[:3] != '220':
  print '220 reply not received from server.'
# Send HELO command and print server response.
heloCommand = 'HELO ALICE\r\n'
sslClientSock.send(heloCommand)
recv1 = sslClientSock.recv(1024)
```

```
print recv1
if recv1[:3] != '250':
  print '250 reply not received from server.'
#Send Mail From command
MailFrom = "MAIL FROM:<"+UName+">\r\n"
sslClientSock.send(MailFrom)
recv1 = sslClientSock.recv(1024)
if recv1[:3] != '250':
  print '[MAIL FROM:] 250 reply was not received from the server'
else:
  print recv1
#Note: for test purposes we will be using the same mail from and rcpt to id
RcptTo = "RCPT TO:<"+UName+">\r\n"
sslClientSock.send(RcptTo)
recv1 = sslClientSock.recv(1024)
if recv1[:3] != '250':
  print '[RCPT TO:] 250 reply was not received from the server'
else:
  print recv1
sslClientSock.send("DATA\r\n")
recv1 = sslClientSock.recv(1024)
if recv1[:3] != '354':
  print '[DATA] 354 reply was not received from the server'
#create a header to be send along with the payload
header = "To:"+UName+"\r\nFrom:"+UName+"\r\nSubject:Test Mail For Computer Networking
Assignment 5\r\n"
#send the header, msg body and the end msg
sslClientSock.send(header)
sslClientSock.send(msg)
sslClientSock.send(endmsg)
recv1 = sslClientSock.recv(1024)
if recv1[:3] != '250':
  print '[DATA STREAM END] 250 reply was not received from the server'
else:
  print recv1
```

sslClientSock.send("QUIT\r\n")

print sslClientSock.recv(1024)

sslClientSock.close()

Output:-



