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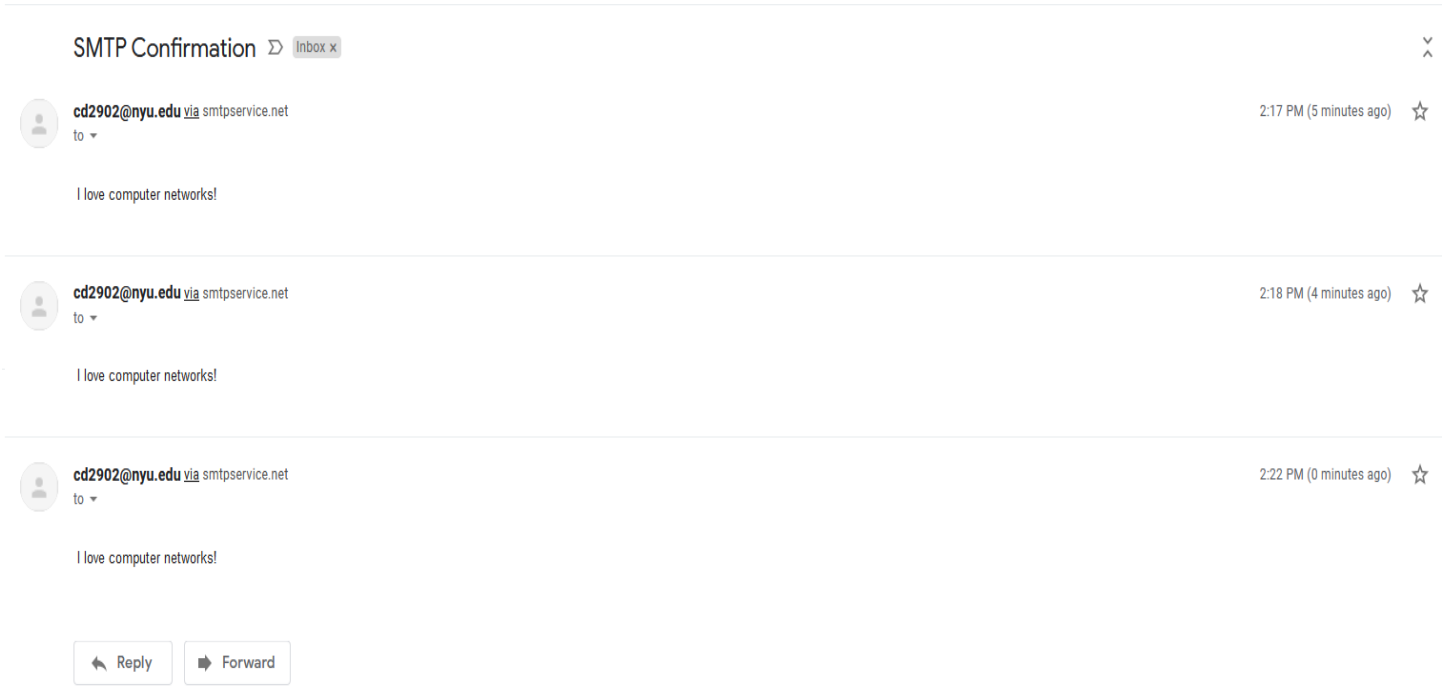
Week 5: Python Programming: SMTP Mail Client



```
from socket import *
import base64

username = "cd2902"
password = "TestingSMTP."

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 = ("mail.smtp2go.com", 80)

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

print('Responding....')
clientSocket = socket(AF_INET, SOCK_STREAM)
clientSocket.connect(mailserver)

#Fill in end

recv = clientSocket.recv(1024).decode()
print(recv)
if recv[:3] != "220":
        print('220 reply not received from server.')


heloCommand = 'EHLO Chris\r\n'
clientSocket.send(heloCommand.encode())
```

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recv1 = clientSocket.recv(1024).decode()
print (recv1)
if recv1[:3] != '250':
        print('250 reply not received from server.')

# Authentication Setup
base64_str = ("\x00"+username+"\x00"+password).encode()
base64_str = base64.b64encode(base64_str)
authMsg = "AUTH PLAIN ".encode()+base64_str+"\r\n".encode()
clientSocket.send(authMsg)
recv_auth = clientSocket.recv(1024)
print(recv_auth.decode())


#send MAIL FROM command and print server response
#Fill in start

fromCommand = "MAIL FROM:<cd2902@nyu.edu>\r\n"
clientSocket.send(fromCommand)
recv2 = clientSocket.recv(1024)
print(recv2)
if recv2[:3] != "250":
        print("250 reply not received from server.")

#Fill in end

#Fill in start
```

```
## Send RCPT TO command and print server response.
print("Sending RCPT")
# Fill in start
rcptToCommand = "RCPT TO:<chrisdesir1994@gmail.com>\r\n"
clientSocket.send(rcptToCommand)
recv3 = clientSocket.recv(1024)
print(recv3)
if recv3[:3] != "250":
        print("250 reply not received from server.")
# Fill in end

#Fill in start



# Send DATA command and print server response.
print("Sending DATA Command")
data = "DATA\r\n"
clientSocket.send(data.encode())
recv4 = clientSocket.recv(1024)
print("After DATA command: "+recv4)
if recv1[:3] != '250':
   print('250 reply not received from server.')
# Fill in end

#Fill in start

# Send message data.
print("Messaging Data")
subject = "Subject: SMTP Confirmation \r\n\r\n"
```

```
clientSocket.send(subject.encode())
clientSocket.send(msg.encode())
clientSocket.send(endmsg.encode())
print("Response after sending message body:"+clientSocket.recv(1024))
if recv1[:3] != '250':
    print('250 reply not received from server.')
# Fill in end
# Send QUIT command and get server response.
#Fill in start

clientSocket.send("QUIT\r\n".encode())
recv5=clientSocket.recv(1024)
print(recv5)
clientSocket.close()

# Fill in end
```