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Course: CSC 138-03
Professor: Jun Dai
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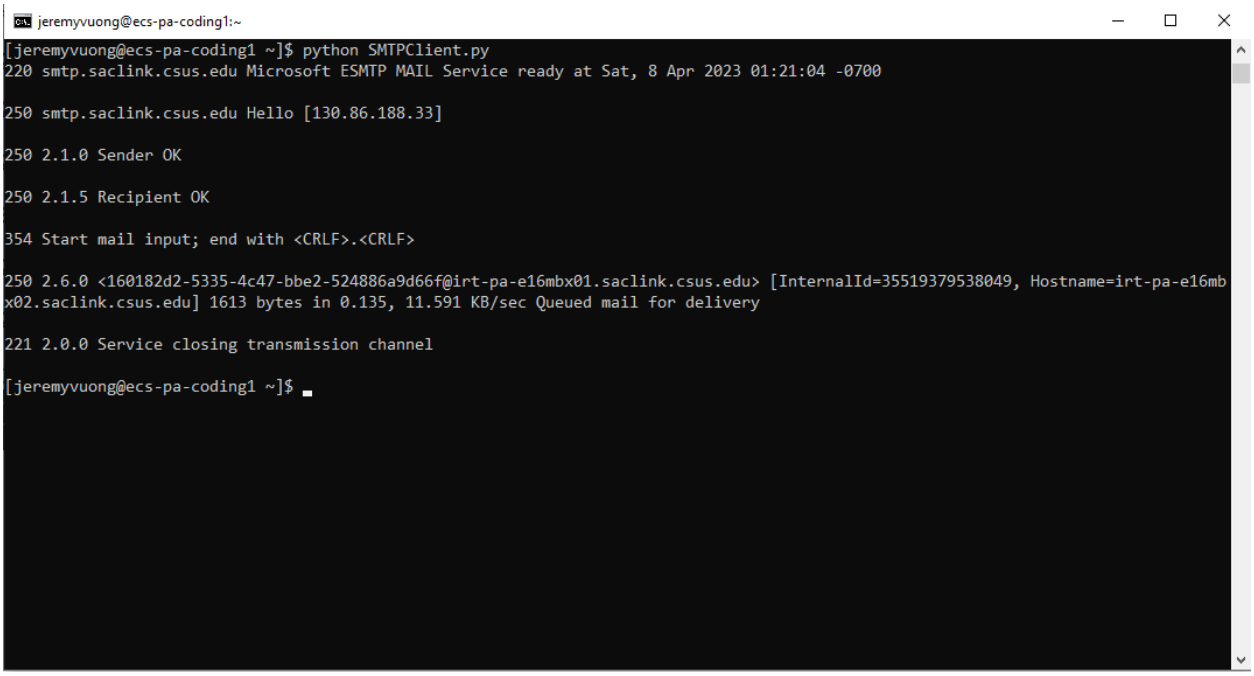
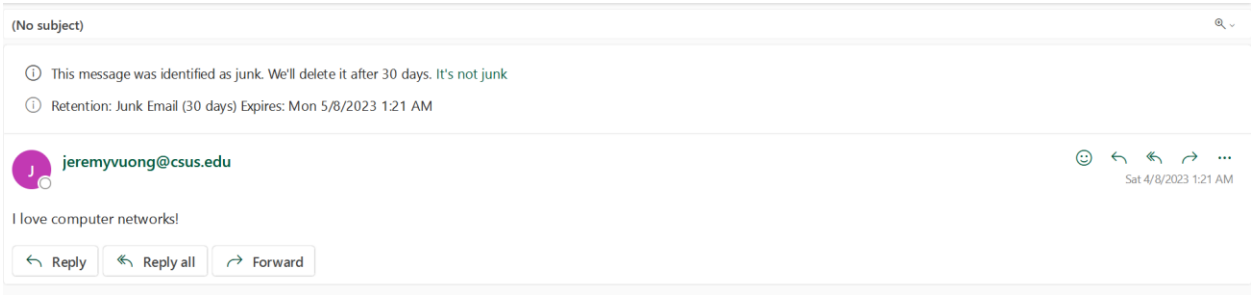
Socket Programming Assignment 2 – Mail Client





jeremyvuong@ecs-pa-coding1:~

```python
from socket import *

msg = "\r\nI love computer networks!"
endmsg = "\r\n.\r\n"

# Choose a mail server (e.g. Google mail server) and call it mailserver
mailserver = "smtp.csus.edu"
mailserver_port = 25

# Create socket called clientSocket and establish a TCP connection with mailserver
clientSocket = socket(AF_INET, SOCK_STREAM)
clientSocket.connect((mailserver, mailserver_port))
recv = clientSocket.recv(1024)
print(recv)
if recv[:3] != b'220':
    print('220 reply not received from server.')

# Send HELO command and print server response.
heloCommand = 'HELO Alice\r\n'
clientSocket.send(heloCommand.encode())
recv1 = clientSocket.recv(1024)
print(recv1)
if recv1[:3] != b'250':
    print('250 reply not received from server.')

# Send MAIL FROM command and print server response.
mailFromCommand = 'MAIL FROM: <jeremyvuong@csus.edu>\r\n'
clientSocket.send(mailFromCommand.encode())
recv2 = clientSocket.recv(1024)
print(recv2)
if recv2[:3] != b'250':
    print('250 reply not received from server.')

# Send RCPT TO command and print server response.
rcptToCommand = 'RCPT TO: <jeremyvuong@csus.edu>\r\n'
clientSocket.send(rcptToCommand.encode())
recv3 = clientSocket.recv(1024)
print(recv3)
if recv3[:3] != b'250':
    print('250 reply not received from server.')

# Send DATA command and print server response.
dataCommand = 'DATA\r\n'
clientSocket.send(dataCommand.encode())
recv4 = clientSocket.recv(1024)
print(recv4)
if recv4[:3] != b'354':
    print('354 reply not received from server.')

# Send message data.
clientSocket.send(msg.encode())

# Message ends with a single period.
clientSocket.send(endmsg.encode())
recv5 = clientSocket.recv(1024)
print(recv5)
if recv5[:3] != b'250':
    print('250 reply not received from server.')

# Send QUIT command and get server response.
quitCommand = 'QUIT\r\n'
clientSocket.send(quitCommand.encode())
recv6 = clientSocket.recv(1024)
print(recv6)
if recv6[:3] != b'221':
    print('221 reply not received from server.')

# Close the client socket
clientSocket.close()
```

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clientSocket.connect((mailserver, mailserver_port))
recv = clientSocket.recv(1024)
print(recv)
if recv[:3] != b'220':
   print('220 reply not received from server.')

# Send HELO command and print server response.
helloCommand = 'HELO Alice\r\n'
clientSocket.send(helloCommand.encode())
recv1 = clientSocket.recv(1024)
print(recv1)
if recv1[:3] != b'250':
   print('250 reply not received from server.')

# Send MAIL FROM command and print server response.
mailFromCommand = 'MAIL FROM: <jeremyvuong@csus.edu>\r\n'
clientSocket.send(mailFromCommand.encode())
recv2 = clientSocket.recv(1024)
print(recv2)
if recv2[:3] != b'250':
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rcptToCommand = 'RCPT TO: <jeremyvuong@csus.edu>\r\n'
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recv4 = clientSocket.recv(1024)
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if recv4[:3] != b'354':
   print('354 reply not received from server.')

# Send message data.
clientSocket.send(msg.encode())

# Message ends with a single period.
clientSocket.send(endmsg.encode())
recv5 = clientSocket.recv(1024)
print(recv5)
if recv5[:3] != b'250':
   print('250 reply not received from server.')

# Send QUIT command and get server response.
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clientSocket.send(quitCommand.encode())
recv6 = clientSocket.recv(1024)
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if recv6[:3] != b'221':
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# Close the client socket
clientSocket.close()
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