SMTP Mail Client

Source Code

```
#CSC 138, M/W/F 11:00-11:50am
#Craig Hulsebus, November 13, 2017
#Skeleton Used From Computer Networking: A Top-Down Approach

from socket import *

helloCommand = 'Hello Alice\r\n'

# Choose a mail server
mailserver = "gaia.ecs.csus.edu"
serverport = 25

# Create socket called clientSocket and establish a TCP connection with the mailserver.
clientSocket = socket(AF_INET, SOCK_STREAM)
clientSocket.connect((mailserver, serverport))
recv0 = clientSocket.recv(1024)
print recv0
if recv0[:3] != '220':
    print '220 reply not received from server.'

# Send Hello command and print the server response.
clientSocket.send(helloCommand)
recv1 = clientSocket.recv(1024)
print recv1
if recv1[:3] != '250':
    print '250 reply not received from server.'

# Send mail from command and print the server response.
mailFromCommand = 'MAIL FROM: hulsebuc@ecs.csus.edu\r\n'
clientSocket.send(mailFromCommand)
recv1 = clientSocket.recv(1024)
print recv1
if recv1[:3] != '250':
    print '250 reply not received from server'

# Send RCPT to command and print the server response.
rcptToCommand = 'RCPT TO: hulsebuc@ecs.csus.edu\r\n'
clientSocket.send(rcptToCommand)
recv1 = clientSocket.recv(1024)
print recv1
if recv1[:3] != '250':
    print '250 reply not received from server'
```
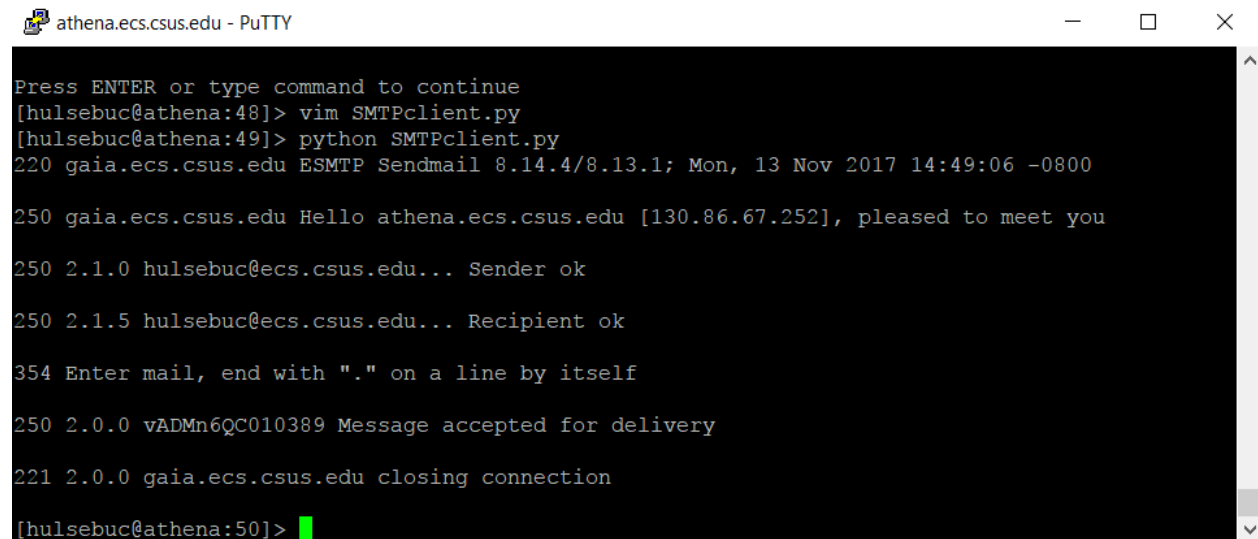
```
# Send DATA command and print the server response.
dataCommand = 'DATA\r\n'
clientSocket.send(dataCommand)
recv1 = clientSocket.recv(1024)
print recv1
if recv1[:3] != '354':
    print '354 reply not received from server'

# Send message data.
msgData = "SUBJECT: SMTP Mail Client Test\nThis message was sent through athena\n.\r\n"
clientSocket.send(msgData)
recv1 = clientSocket.recv(1024)
print recv1
if recv1[:3] != '250':
    print '250 reply not received from server'

# Send QUIT command and get the server response.
exitCommand = 'closing connection\r\n'
clientSocket.send("closing connection\r\n")
recv1 = clientSocket.recv(1024)
print recv1
if recv1[:3] != '221':
    print '221 reply not received from server'
```

Screenshot Demonstration

Image of code executing
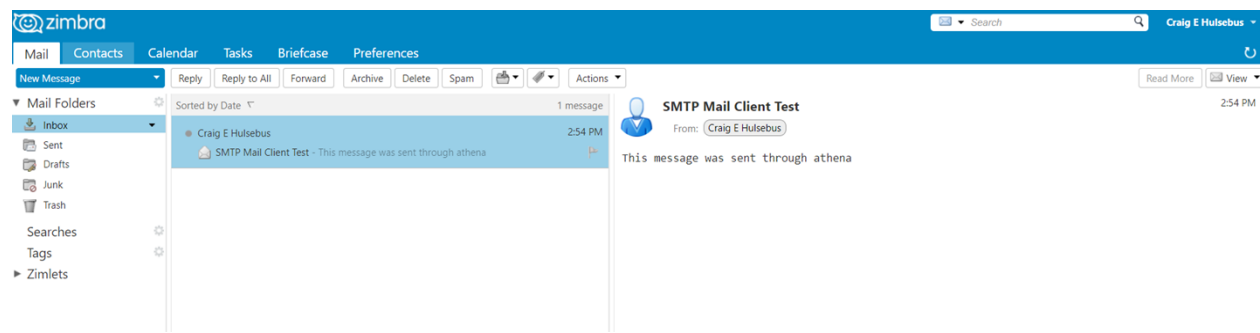
Confirmation of email in the email agent