

## Report for Socket Prg Project 2-Mail

### Source Code:

```
from socket import *

#message to send
msg = "\r\n I love cars and computer networks!"
endmsg = "\r\n.\r\n"

mailserver = 'gaia.ecs.csus.edu'
portnumber= 25

clientSocket = socket(AF_INET, SOCK_STREAM) # creating a socket and making a
TCP connection with mail server
clientSocket.connect ((mailserver, portnumber))

recv = clientSocket.recv(1024).decode()
print(recv)

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

# Send MAIL FROM command and print server response.
mailSender ='MAIL FROM: <carEnthusiast@z06.org>\r\n'
clientSocket.send (mailSender)
recv2 = clientSocket.recv(1024).decode()
print (recv2)
if recv2[:3] != '250':
```

```

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

#Send RCPT TO command and print server response.
recipient='RCPT TO: <gurwindersingh2@csus.edu>\r\n'
clientSocket.send (recipient)
recv3 = clientSocket.recv(1024).decode()
print (recv3)
if recv3[:3] != '250':
    print('250 reply not received from server.')

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

# Send message data.
clientSocket.send('SUBJECT: Cars Information\r\n')
clientSocket.send(msg)

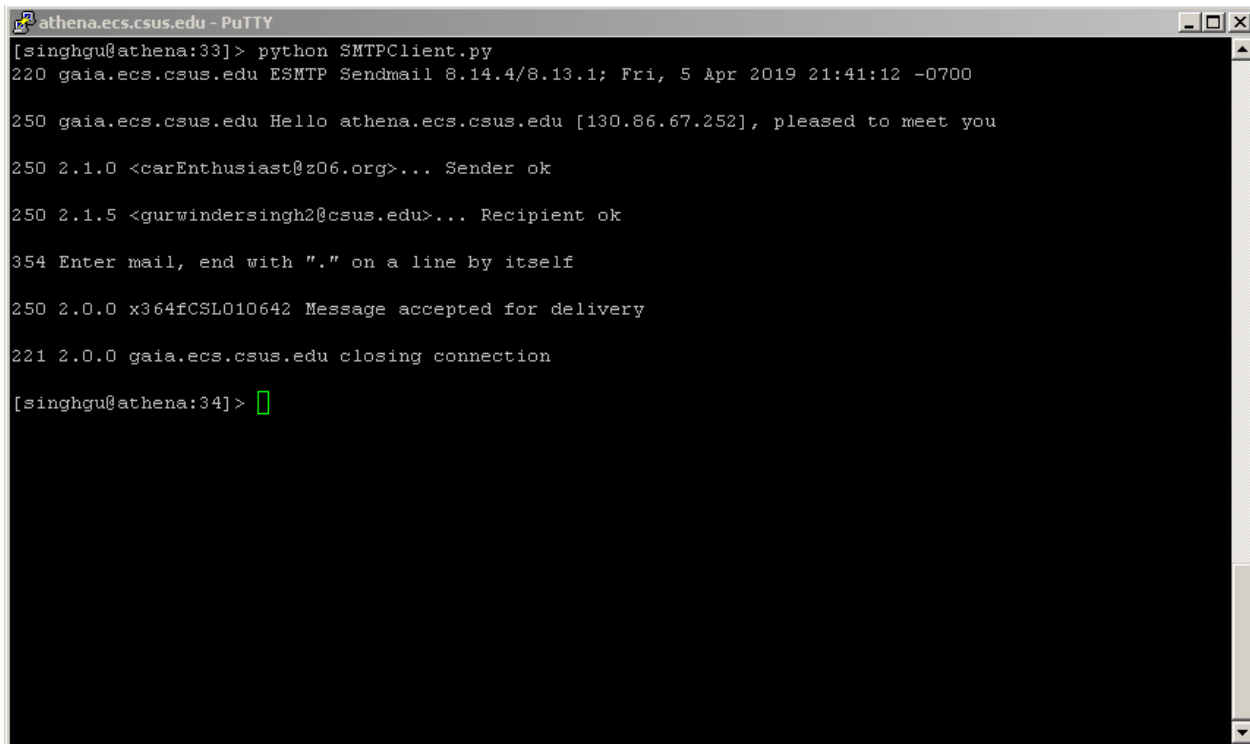
# Message ends with a single period.
clientSocket.send (endmsg)
recv5 = clientSocket.recv(1024).decode()
print (recv5)
if recv5[:3] != '250':
    print('250 reply not received from server.')

# Send QUIT command and get server response.
quitt = 'QUIT\r\n'
clientSocket.send (quitt)
recv6 = clientSocket.recv(1024).decode()
print (recv6)

```

```
if recv6[:3] != '221':  
    print('221 reply not received from server.')
```

## ScreenShots



The screenshot shows a PuTTY terminal window titled "athena.ecs.csus.edu - PuTTY". The user is logged in as "singhgu" at "athena". The terminal displays the output of running "python SMTPClient.py". The SMTP session log is as follows:



```
[singhgu@athena:33]> python SMTPClient.py  
220 gaia.ecs.csus.edu ESMTP Sendmail 8.14.4/8.13.1; Fri, 5 Apr 2019 21:41:12 -0700  
  
250 gaia.ecs.csus.edu Hello athena.ecs.csus.edu [130.86.67.252], pleased to meet you  
  
250 2.1.0 <carEnthusiast@z06.org>... Sender ok  
  
250 2.1.5 <gurwindersingh2@csus.edu>... Recipient ok  
  
354 Enter mail, end with "." on a line by itself  
  
250 2.0.0 x364fCSL010642 Message accepted for delivery  
  
221 2.0.0 gaia.ecs.csus.edu closing connection  
  
[singhgu@athena:34]> █
```



## Cars Information



carEnthusiast@z06.org  
Today, 9:41 PM

 Reply all | 

I love cars and computer networks!