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#CPE 138

#Professor Panzica

from socket import \*

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 = "localhost"

port = 25

sender = "<test@ecs.csus.edu>"

recipient = "<samlee@csus.edu>"

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

clientSocket = socket(AF\_INET, SOCK\_STREAM)

clientSocket.connect((mailserver, port))

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.

print "Sending HELO command"

heloCommand = 'HELO Alice\r\n'

clientSocket.send(heloCommand.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.

print "Send MAIL FROM command"

mailFromCommand = 'MAIL FROM: ' + sender + '\r\n'

clientSocket.send(mailFromCommand.encode())

recv1 = clientSocket.recv(1024).decode()

print recv1

if recv1[:3] != '250':

print '250 reply not received from server'

# Send RCPT TO command and print server response.

print "Sending RCPT TO command"

rcptToCommand = 'RCPT TO: ' + recipient + '\r\n'

clientSocket.send(rcptToCommand.encode())

recv1 = clientSocket.recv(1024).decode()

print recv1

if recv1[:3] != '250':

print '250 reply not received from server'

# Send DATA command and print server response.

print "Send DATA command"

dataCommand = 'DATA\r\n'

clientSocket.send(dataCommand.encode())

recv1 = clientSocket.recv(1024).decode()

print recv1

if recv1[:3] != '354':

print ('354 reply not received from server')

# Send message data.

print "Sending message data"

clientSocket.send(msg + endmsg.encode())

recv1 = clientSocket.recv(1024).decode()

print recv1

if recv1[:3] != '250':

print ('250 reply not received from server\n')

# Message ends with a single period.

print "."

# Send QUIT command and get server response.

print "Sending QUIT command"

quitCommand = 'QUIT\r\n'

clientSocket.send("QUIT\r\n".encode())

recv1 = clientSocket.recv(1024).decode()

print recv1

if recv1[:3] != '221':

print ('221 reply not received from server')

clientSocket.close()