

```
from socket import *
import ssl
import base64

class SMTP:
    def __init__(self, mail_server, port):
        self.mail_server = mail_server
        self.port = port

    def initialize_connection(self):
        ssl_client = ssl.wrap_socket(socket(AF_INET, SOCK_STREAM))
        ssl_client.connect((self.mail_server, self.port))
        self.ssl_client = ssl_client
        return

    def check_response(self, response_msg, code):
        if response_msg[:3] != code:
            print 'Reply not received from server.'
        else:
            print "Reply received"
        return

    def connection_response(self):
        return self.ssl_client.recv(1024)

    def authorization(self, command, username, password):
        self.ssl_client.send('AUTH LOGIN\r\n')
        print "Auth response:", self.connection_response()
        self.ssl_client.send(base64.b64encode(username) + '\r\n')
        print "Username response:", self.connection_response()
        self.ssl_client.send(base64.b64encode(password) + '\r\n')
        print "Password response:", self.connection_response()
        return

    def send(self, command):
        self.ssl_client.send(command)
        return

if __name__ == '__main__':
    mail_server = "smtp.mail.yahoo.com"
    port = 465
    username = "xxx@yahoo.com"
    password = "XXX"
    message = "\r\n Hola! Kepaso"
    end_message = '\r\n.\r\n'
    objSMTP = SMTP(mail_server, port)
    objSMTP.initialize_connection()
    response = objSMTP.connection_response()
    print "\nInitialize Connection Response:\n", response
```

```
objSMTP.check_response(response, '220')
objSMTP.send('HELO Alice\r\n')
response = objSMTP.connection_response()
print "\nSending sample text 'HELO Alice' Response:\n", response
objSMTP.check_response(response, '250')
objSMTP.authorization('AUTH LOGIN\r\n', 'xxx', password)
objSMTP.send('MAIL From: <xxx@yahoo.com>\r\n')
response = objSMTP.connection_response()
print "\nMAIL FROM Response:\n", response
objSMTP.check_response(response, '250')
objSMTP.send('RCPT To: <xxx@gmail.com>\r\n')
response = objSMTP.connection_response()
objSMTP.check_response(response, '250')
print "\nRCPT To Response:\n", response
objSMTP.send('DATA\r\n')
response = objSMTP.connection_response()
print "\nDATA Response:\n", response
objSMTP.send(message)
objSMTP.send(end_message)
response = objSMTP.connection_response()
print "\nSending message Response:\n", response
objSMTP.send('QUIT\r\n')
print "\nQUIT Response:\n", response
response = objSMTP.connection_response()
objSMTP.check_response(response, '221')
```

Output:

C:\Users\Afroze\Desktop>python smtp.py

Initialize Connection Response:

220 smtp.mail.yahoo.com ESMTP ready

Reply received

Sending sample text 'HELO Alice' Response:

250 smtp.mail.yahoo.com

Reply received

Auth response: 334 VXNlcm5hbWU6

User response: 334 UGFzc3dvcmQ6

Pass response: 235 2.0.0 OK

SMTP Assignment

Afroze Ahamed Khan, Mohamed

Poly ID: 0522339

Net ID: N12362765

MAIL FROM Response:

250 OK , completed

Reply received

Reply received

RCPT To Response:

250 OK , completed

DATA Response:

354 Start Mail. End with CRLF.CRLF

Sending message Response:

250 OK , completed

QUIT Response:

250 OK , completed

Reply received

Mail Received:

