

CSE-476 Mobile Communications Networks

TERM PROJECT FINAL REPORT

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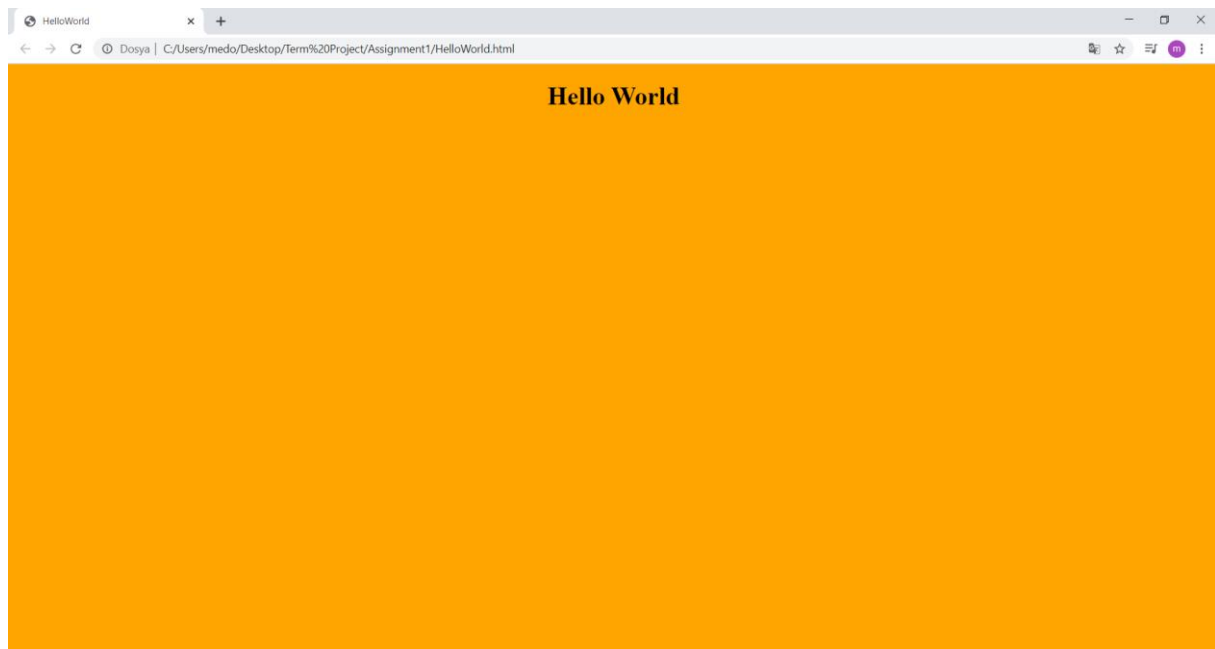
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Assignment1: Web Server

For Assignment1, I fully understood what was required, I did some researches about this assignment and I started completing the skeleton code into the WebServer.py file and I create a HelloWorld.html file. While completing skeleton code I send a http header line into socket. Then I send the content of the requested file to the client. For the files which is not present my server I returned a 404 Not Found error message. I kept WebServer.py and HelloWorld.html file into the same directory. After run the server program I got some results. I will show these results as a screenshot below. I used python version 2.7.18 while running the code. I got a warning message because no action was taken after the code was run, and I added an if condition in the try block to eliminate it. That's how I handled this warning message.

Results

- This is my HelloWorld.html file



- **Run WebServer.py**

```
Administrator: C:\WINDOWS\system32\CMD.exe - py -2 WebServer.py
Microsoft Windows [Version 10.0.19041.685]
(c) 2020 Microsoft Corporation. Tüm hakları saklıdır.

C:\Users\medo>cd Desktop

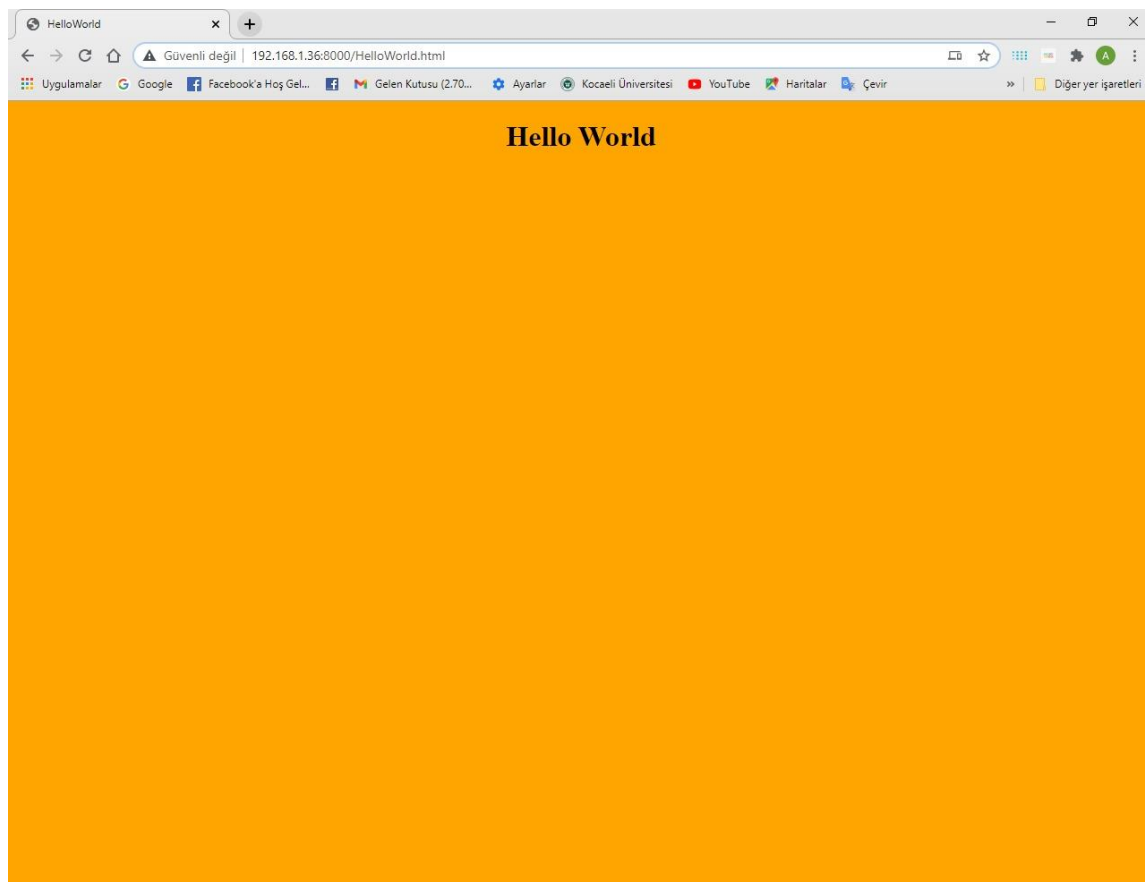
C:\Users\medo\Desktop>cd "Term Project"

C:\Users\medo\Desktop\Term Project>cd Assignment1

C:\Users\medo\Desktop\Term Project\Assignment1>py -2 WebServer.py
Ready to serve...
Ready to serve...
Ready to serve...
Ready to serve...
Ready to serve...
Ready to serve...
```

- **Results with another host**

I get these results with my IPv4 adress and by the another host I open a browser and run with corresponding URL. (HelloWorld is my html file's name.) And port number is 8000. I get these results.



After these, I run the server with with a file which is not into the same directory. (I try with HelloooooWorld.html file). And it prints '404 Not Found' message



Bu 192.168.1.36 sayfası bulunamıyor

Şu web adresi için web sayfası bulunamadı:<http://192.168.1.36:8000/HelloooooWorld.html>

HTTP ERROR 404

[Yeniden Yükle](#)

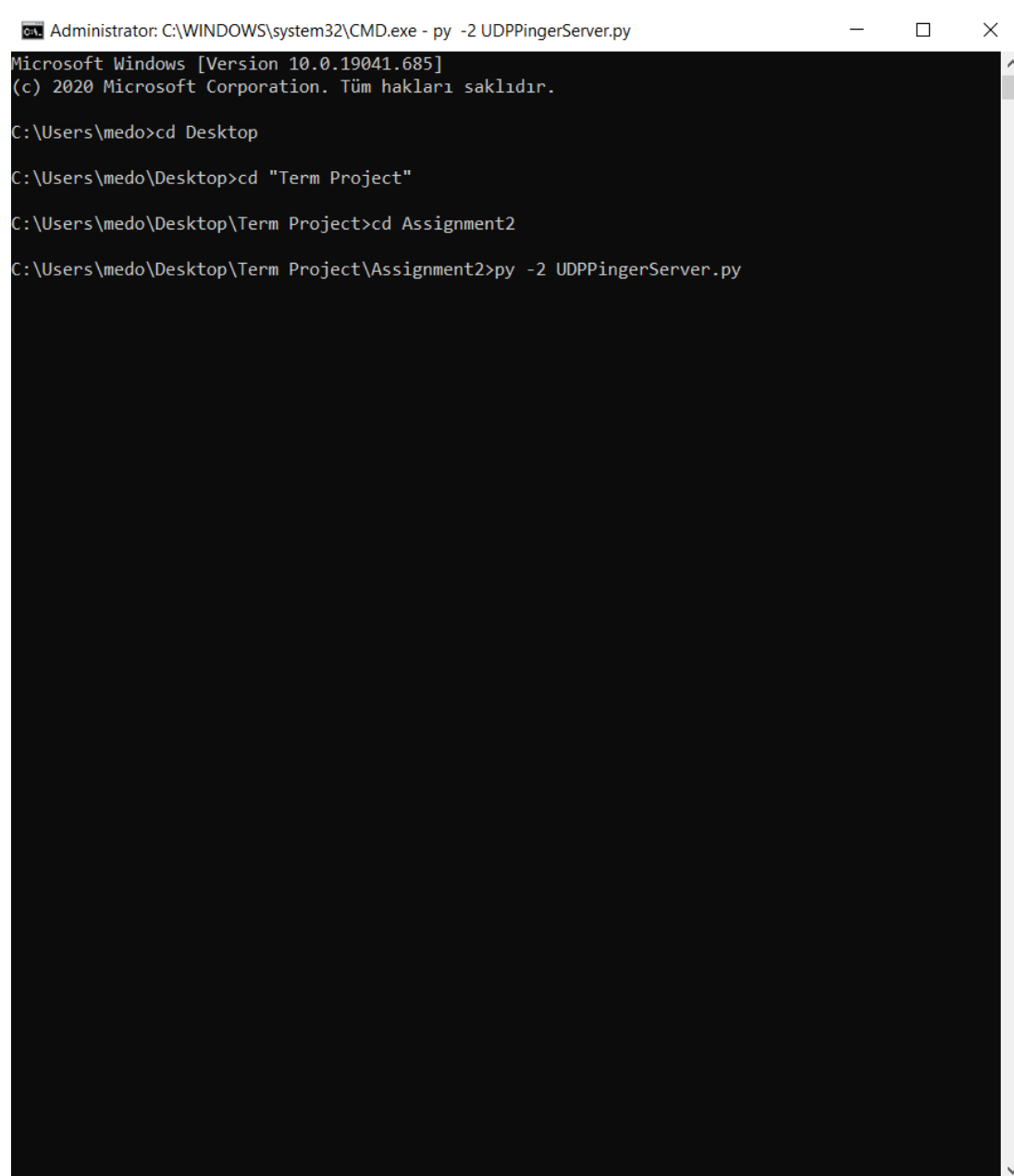
Assignment2: UDP Pinger

For Assignment2, I fully understood what was required, I did some researches about this assignment and I copy the UDPPingerServer.py skeleton code. Then I started implementing UDPPingerClient.py code. This client code sends ping messages using UDP. It prints the response message if there is a response from the server. And it calculates and prints the round trip time. Otherwise it prints request timed out message.

For the seeing results firstly I run the server program after that I run the client program and I got some results. I will show these results as a screenshot below. I used python version 2.7.18 while running these codes.

Results

- Run UDPPingerServer.py

A screenshot of a Windows Command Prompt window. The title bar reads "Administrator: C:\WINDOWS\system32\CMD.exe - py -2 UDPPingerServer.py". The window content shows the following text:

```
Microsoft Windows [Version 10.0.19041.685]  
(c) 2020 Microsoft Corporation. Tüm hakları saklıdır.  
  
C:\Users\medo>cd Desktop  
  
C:\Users\medo\Desktop>cd "Term Project"  
  
C:\Users\medo\Desktop\Term Project>cd Assignment2  
  
C:\Users\medo\Desktop\Term Project\Assignment2>py -2 UDPPingerServer.py
```

The rest of the window is empty, indicating the program is running and waiting for input or output.

- Run UDPPingerClient.py

```
Seç Administrator: C:\WINDOWS\system32\CMD.exe
Microsoft Windows [Version 10.0.19041.685]
(c) 2020 Microsoft Corporation. Tüm hakları saklıdır.

C:\Users\medo>cd Desktop

C:\Users\medo\Desktop>cd "Term Project"

C:\Users\medo\Desktop\Term Project>cd Assignment2

C:\Users\medo\Desktop\Term Project\Assignment2>py -2 UDPPingerClient.py
Message to Sent: Ping #1 Sun Jan  3 23:27:38 2021
Received Message: PING #1 SUN JAN  3 23:27:38 2021
RTT: 0.00600004196167 seconds

Message to Sent: Ping #2 Sun Jan  3 23:27:38 2021
#2Requested Time Out

Message to Sent: Ping #3 Sun Jan  3 23:27:39 2021
Received Message: PING #3 SUN JAN  3 23:27:39 2021
RTT: 0.00400018692017 seconds

Message to Sent: Ping #4 Sun Jan  3 23:27:39 2021
Received Message: PING #4 SUN JAN  3 23:27:39 2021
RTT: 0.00499987602234 seconds

Message to Sent: Ping #5 Sun Jan  3 23:27:39 2021
Received Message: PING #5 SUN JAN  3 23:27:39 2021
RTT: 0.00600004196167 seconds

Message to Sent: Ping #6 Sun Jan  3 23:27:39 2021
Received Message: PING #6 SUN JAN  3 23:27:39 2021
RTT: 0.00600004196167 seconds

Message to Sent: Ping #7 Sun Jan  3 23:27:39 2021
#7Requested Time Out

Message to Sent: Ping #8 Sun Jan  3 23:27:40 2021
Received Message: PING #8 SUN JAN  3 23:27:40 2021
RTT: 0.0110001564026 seconds

Message to Sent: Ping #9 Sun Jan  3 23:27:40 2021
#9Requested Time Out

Message to Sent: Ping #10 Sun Jan  3 23:27:41 2021
#10Requested Time Out

Close Socket

C:\Users\medo\Desktop\Term Project\Assignment2>
```

Assignment3: Mail Client

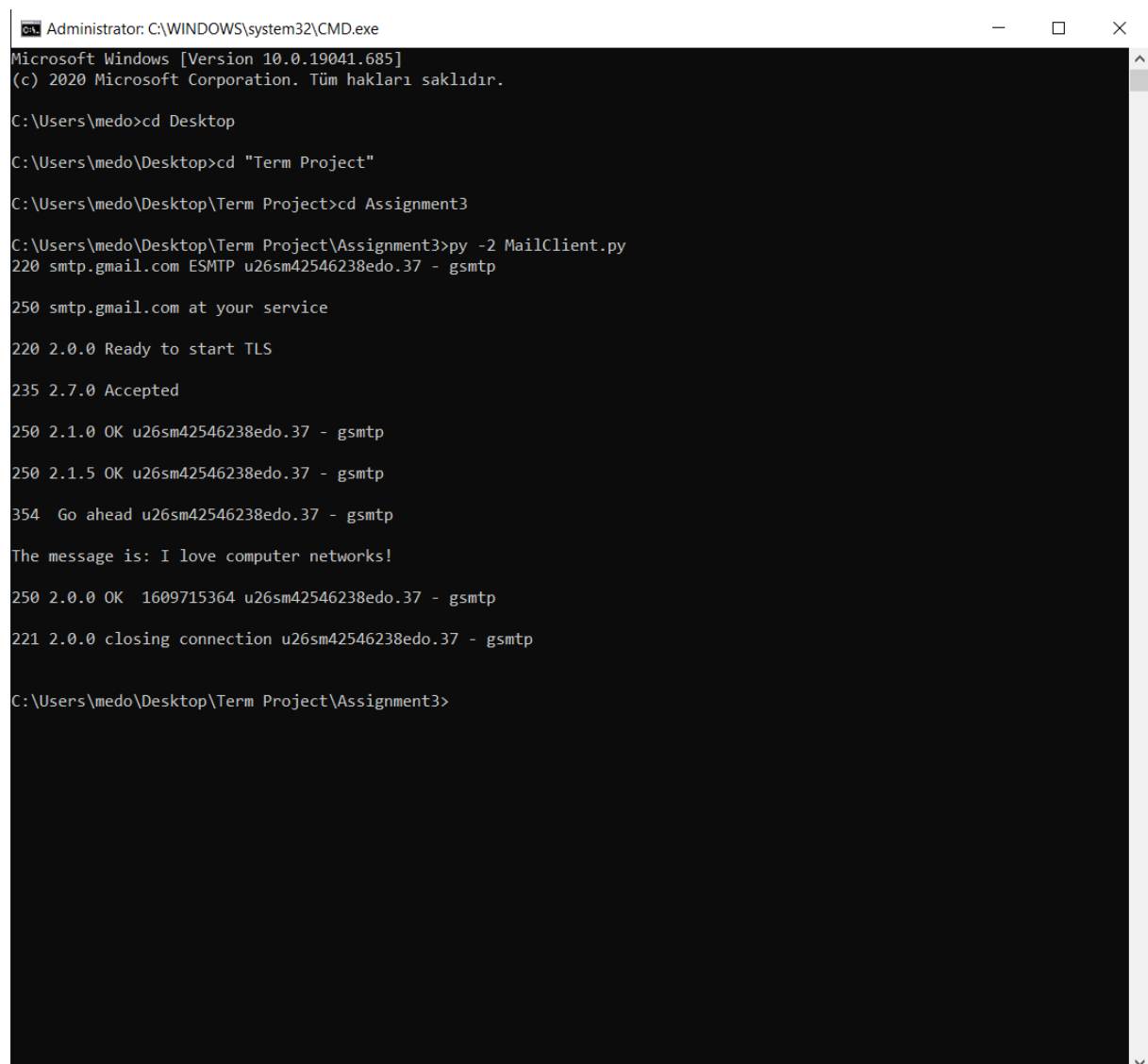
For Assignment3, I fully understood what was required, I did some researches about this assignment and I copy the skeleton code. Then I started completing this. While completing this code I create I socket which is client socket. Then I send these commands this order: HELO command, STARTTLS command, MAIL FROM command, RCPT TO command, DATA command. After that I wanted a message from the terminal. Then I send QUIT command.

I used my gmail and gtu mail account. I deleted these from my source codes. For run this program you should enter your mail addresses and necessary informations(such as your mail accounts and password).

Then I run program. After run the program I received mail from my gmail account to my gtu mail account. Mail content is given message into the beginning of skeleton code(I love computer networks!). I will show these results as a screenshot below. I used python version 2.7.18 while running these codes.

Results

- **Run MailClient.py**



```
Administrator: C:\WINDOWS\system32\CMD.exe
Microsoft Windows [Version 10.0.19041.685]
(c) 2020 Microsoft Corporation. Tüm hakları saklıdır.

C:\Users\medo>cd Desktop

C:\Users\medo\Desktop>cd "Term Project"

C:\Users\medo\Desktop\Term Project>cd Assignment3

C:\Users\medo\Desktop\Term Project\Assignment3>py -2 MailClient.py
220 smtp.gmail.com ESMTP u26sm42546238edo.37 - gsmtip

250 smtp.gmail.com at your service

220 2.0.0 Ready to start TLS

235 2.7.0 Accepted

250 2.1.0 OK u26sm42546238edo.37 - gsmtip

250 2.1.5 OK u26sm42546238edo.37 - gsmtip

354 Go ahead u26sm42546238edo.37 - gsmtip

The message is: I love computer networks!

250 2.0.0 OK 1609715364 u26sm42546238edo.37 - gsmtip

221 2.0.0 closing connection u26sm42546238edo.37 - gsmtip

C:\Users\medo\Desktop\Term Project\Assignment3>
```

SMTP mail client testing



İletiyi şu dile çevir: Türkçe | Şu dilden hiçbir zaman çevirme: İngilizce



medineaslan98@gmail.com

4.01.2021 Pzt 02:09



I love computer networks!

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[İlet](#)