CSE-476 Mobile Communications Networks

TERM PROJECT FINAL REPORT
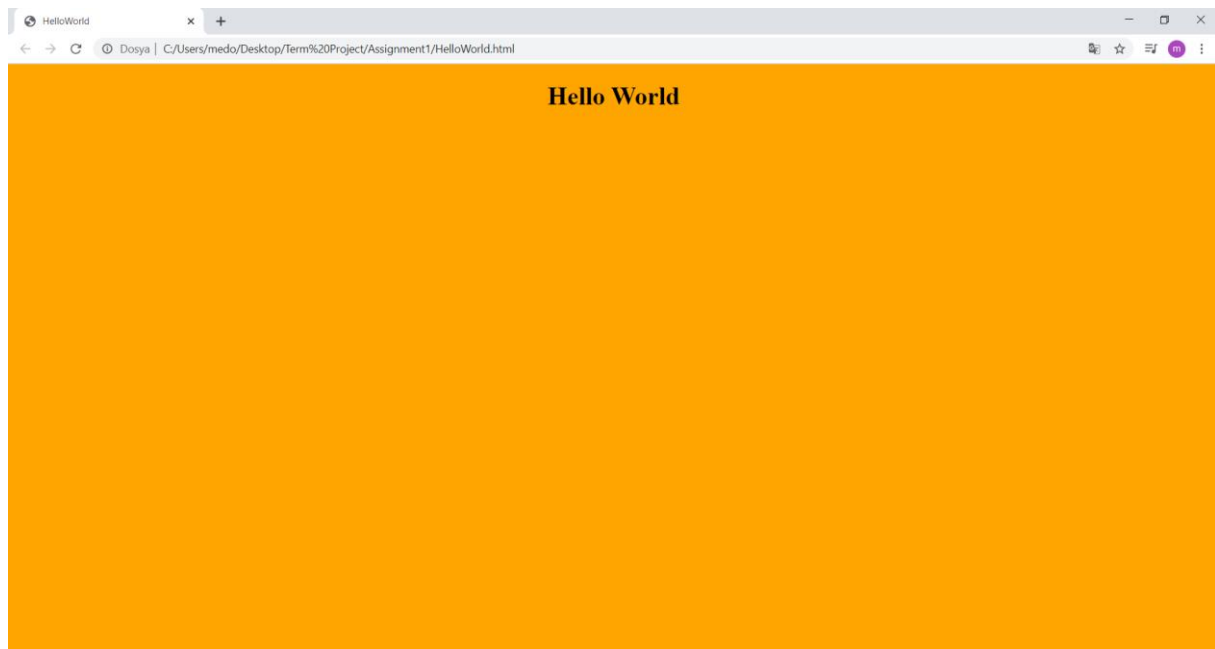
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Assignment1: Web Server

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**

- **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.
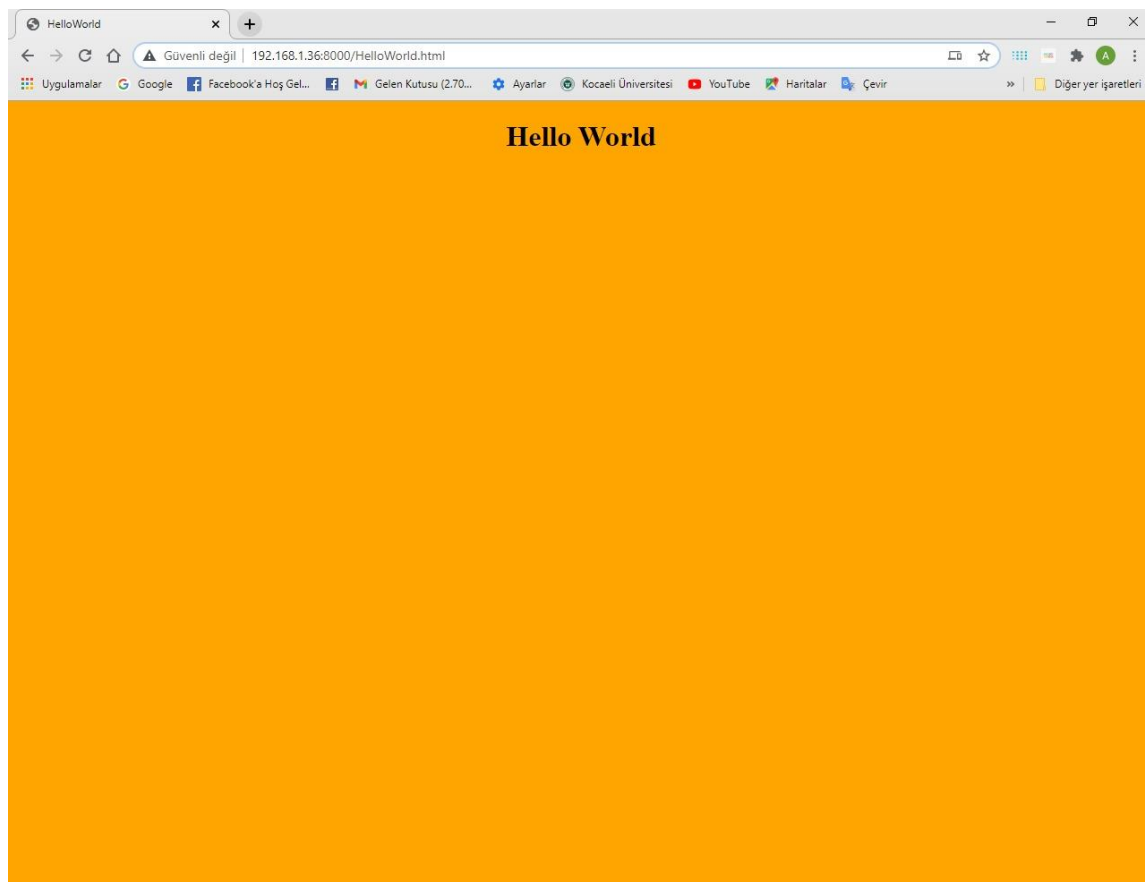
After these, I run the server with with a file which is not into the same directory. (I try with HelloooooWorld.html file). And it prints '404 Not Found' message
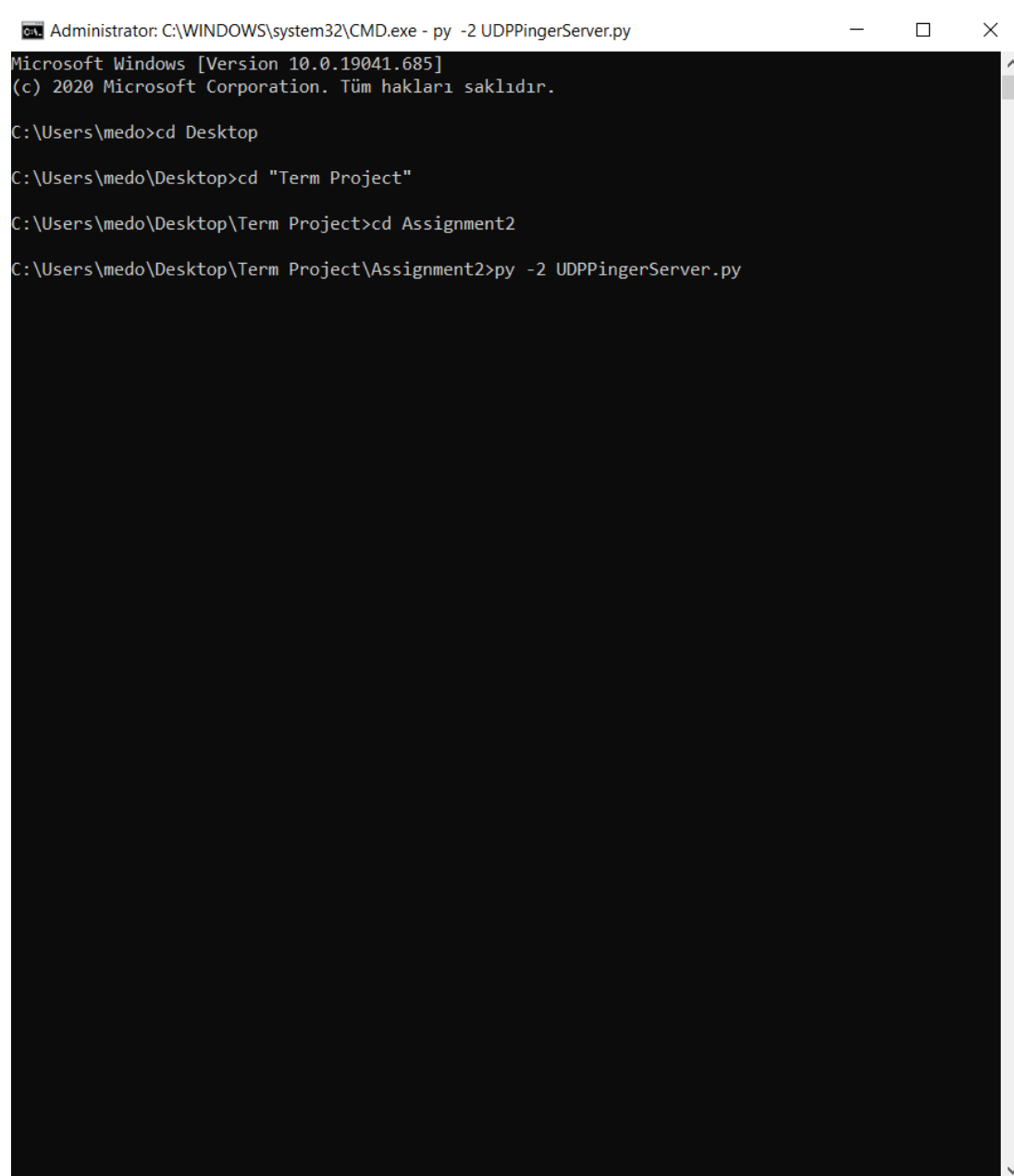
Assignment2: UDP Pinger

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**

- **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>
```
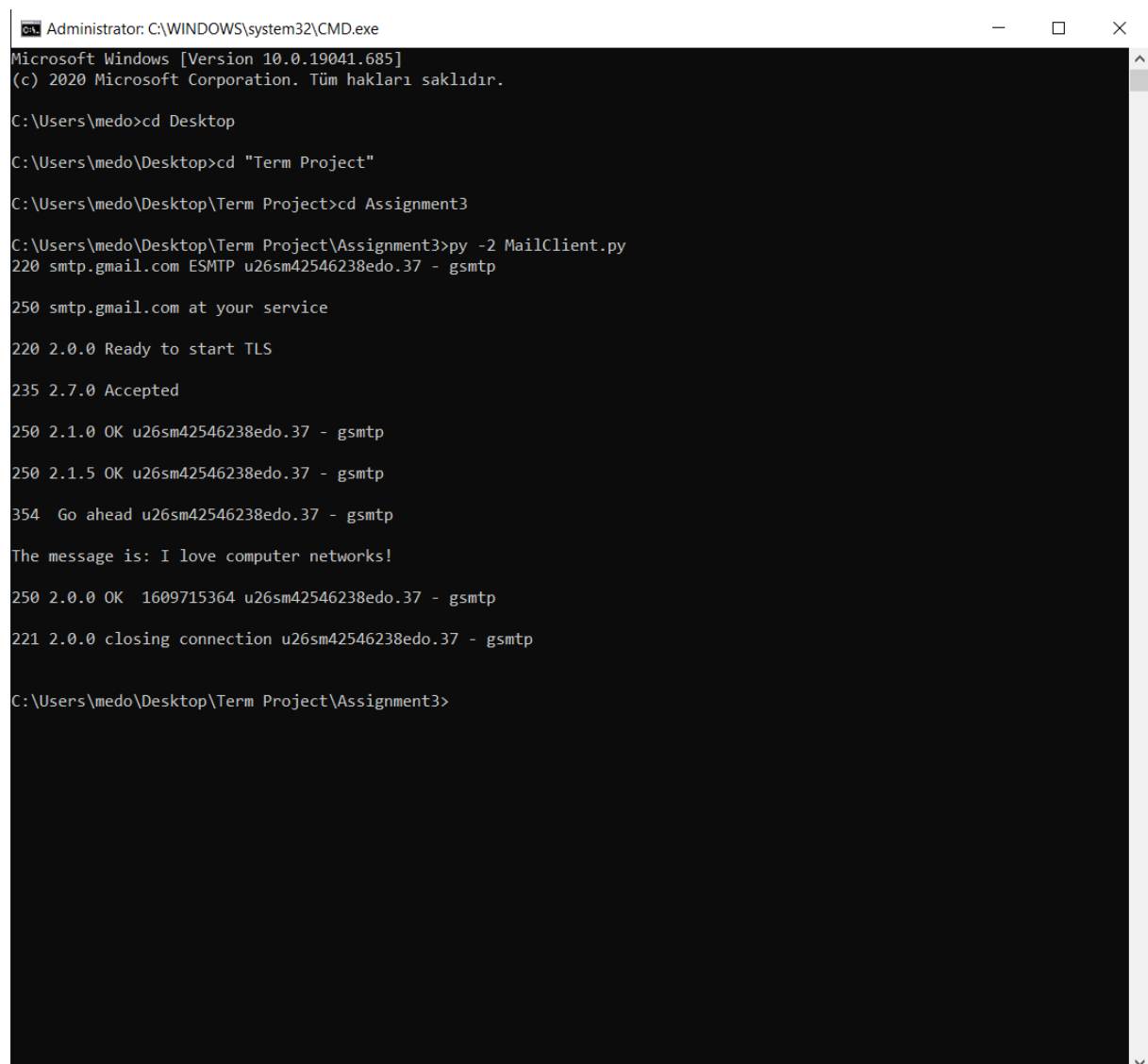
Assignment3: Mail Client

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 adresses 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**

SMTP mail client testing

M medineaslan98@gmail.com
4.01.2021 Pzt 02:09

I love computer networks!

Yanıtla | Tümünü yanıtla | İlet