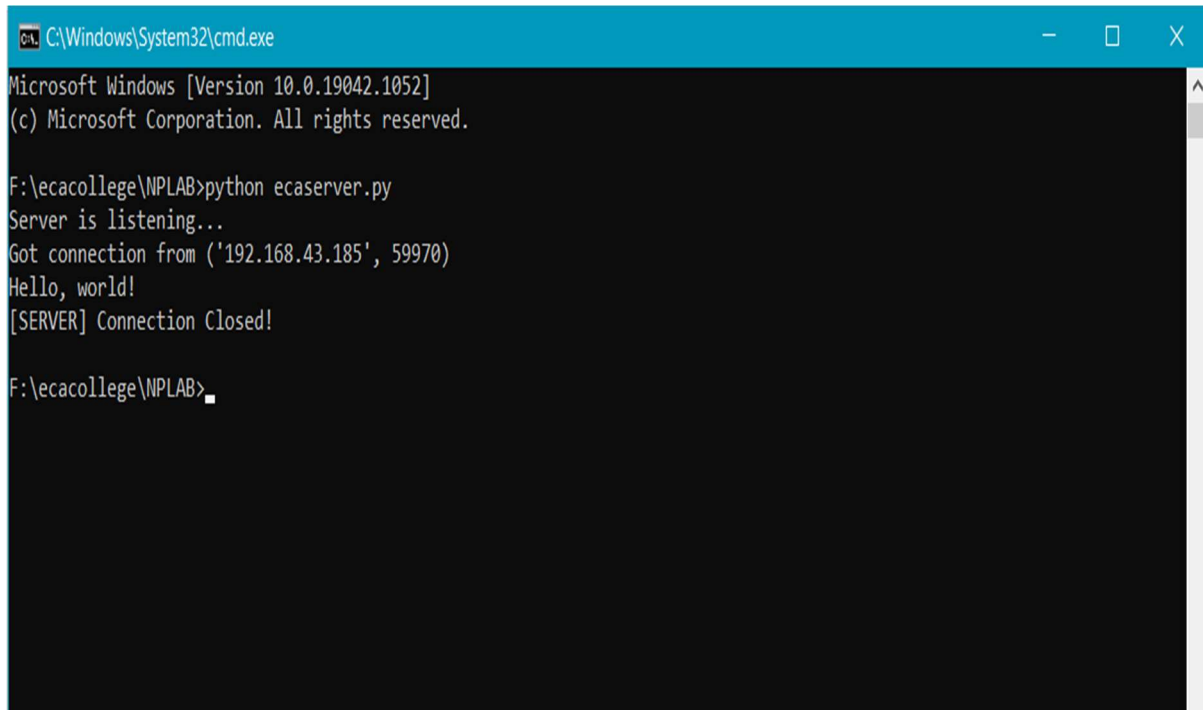


NP LAB

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COLLAGE ID: 19IT57

SERVER SIDE

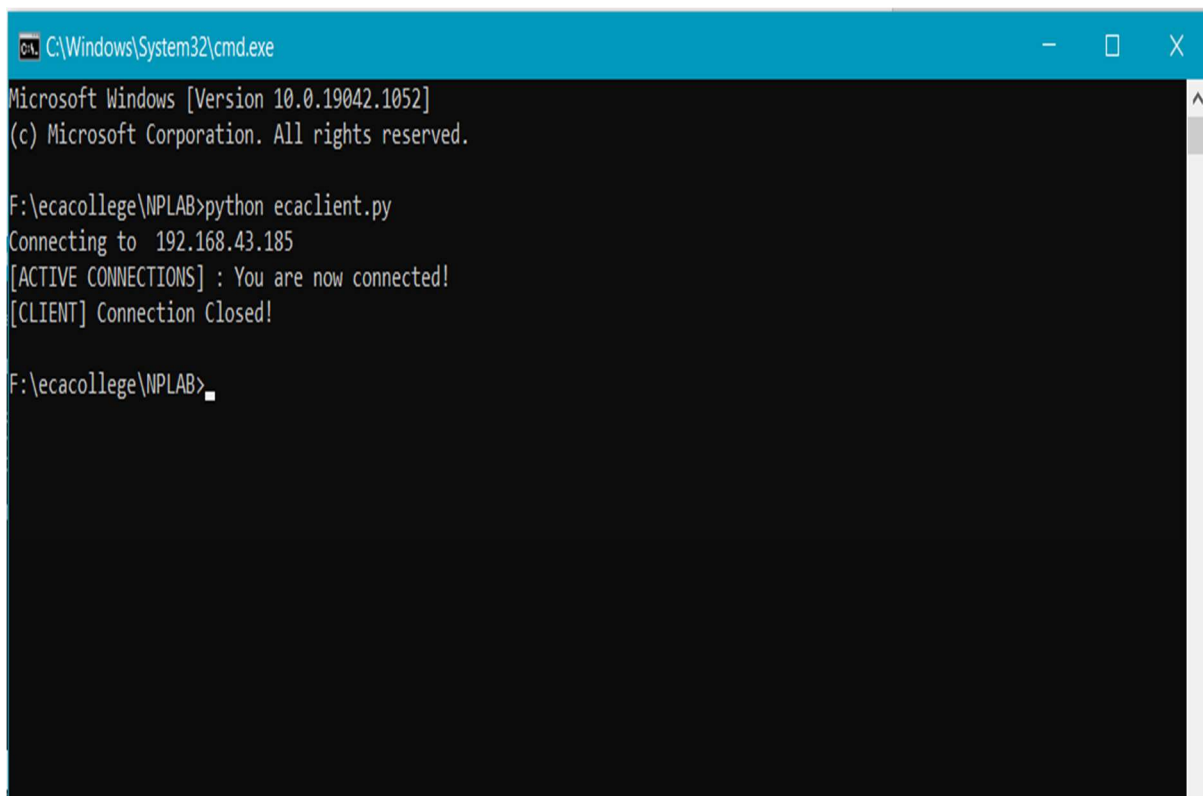


```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19042.1052]
(c) Microsoft Corporation. All rights reserved.

F:\ecacollege\NPLAB>python ecaserver.py
Server is listening...
Got connection from ('192.168.43.185', 59970)
Hello, world!
[SERVER] Connection Closed!

F:\ecacollege\NPLAB>
```

CLIENT SIDE



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19042.1052]
(c) Microsoft Corporation. All rights reserved.

F:\ecacollege\NPLAB>python ecaclient.py
Connecting to 192.168.43.185
[ACTIVE CONNECTIONS] : You are now connected!
[CLIENT] Connection Closed!

F:\ecacollege\NPLAB>
```

SERVER SIDE CODE

```
ecaserver.py > ...
1  import socket
2
3  PORT = 5050
4  SERVER = socket.gethostname(socket.gethostname())
5  ADDR = (SERVER, PORT)
6  FORMAT = 'utf-8'
7
8  server = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
9  server.bind(ADDR)
10
11 server.listen()
12 print("Server is listening...")
13
14 while True:
15
16     conn, addr = server.accept()
17     print('Got connection from', addr)
18
19     # send connection info message to the client.
20     conn.send('[ACTIVE CONNECTIONS] : You are now connected!'.encode(FORMAT))
21
22     # Message received from client side
23     print(conn.recv(13).decode(FORMAT))
24
25     break
26
27 # Close the connection with the client
28 conn.close()
29 print("[SERVER] Connection Closed!")
30
```

CLIENT-SIDE CODE

```
ecaclient.py > ...
1  import socket
2
3  PORT = 5050
4  FORMAT = 'utf-8'
5  SERVER = socket.gethostname(socket.gethostname())
6  print('Connecting to ', SERVER)
7  ADDR = (SERVER, PORT)
8
9  client = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
10 client.connect(ADDR)
11
12 print(client.recv(45).decode(FORMAT))
13
14 # send Hello, world! message to the server.
15 message = 'Hello, world!'.encode(FORMAT)
16 client.send(message)
17
18 # Close the connection
19 client.close()
20
21 print("[CLIENT] Connection Closed!")
22
```