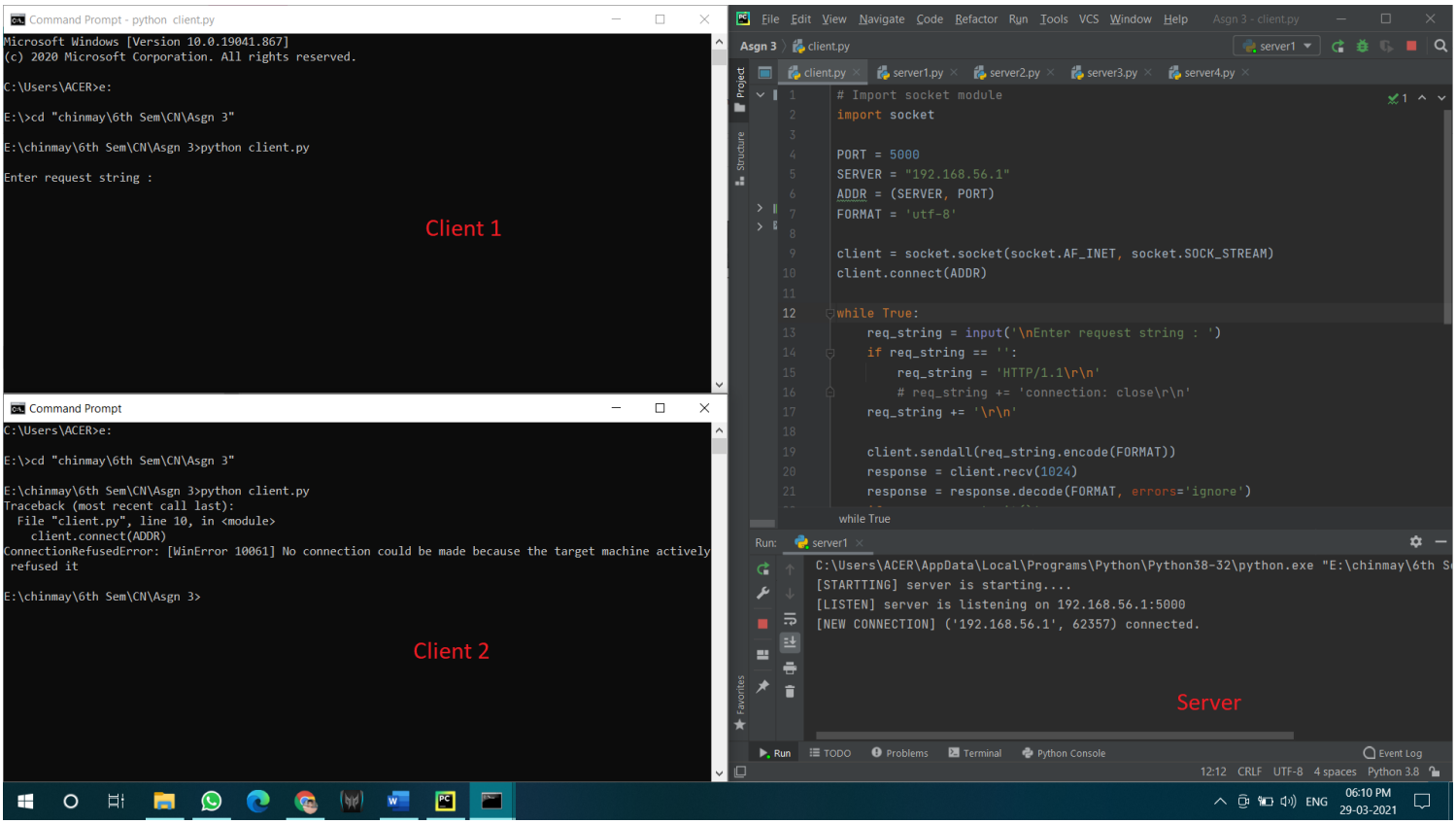
CN Report

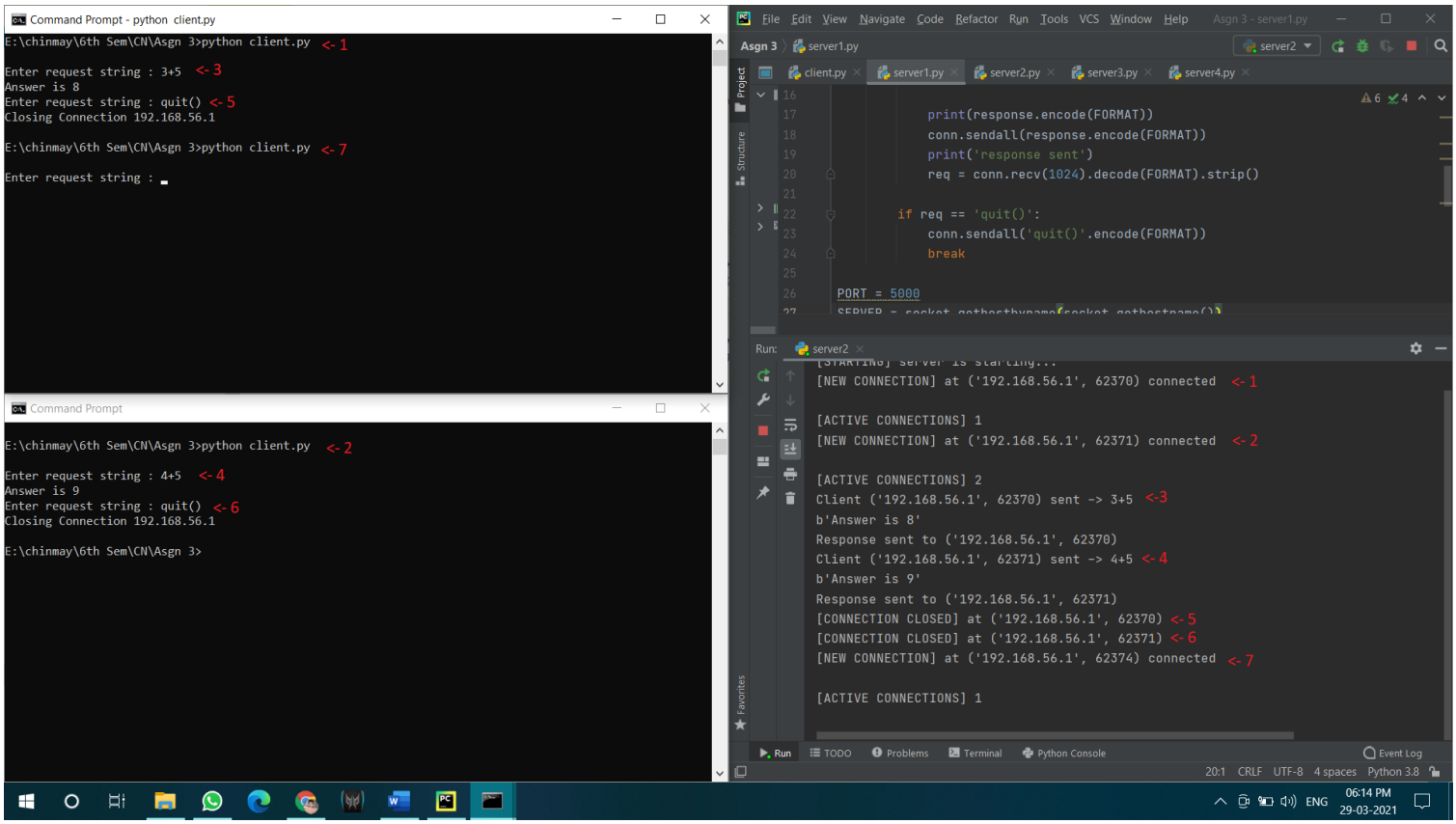
Assignment 3

1. Server1.py



Client 1 initially established connection, hence client 2 wont be able to connect.

2. Server2.py



Order **1** and **2** shows connection of **client 1** and **Client 2** respectively.
Order 3 and 4 shows request and response between clients and server.

3 -> req = 3+5 [Client_1]
Response = 8

4 -> req = 4+5 [Client_2]
Response = 9

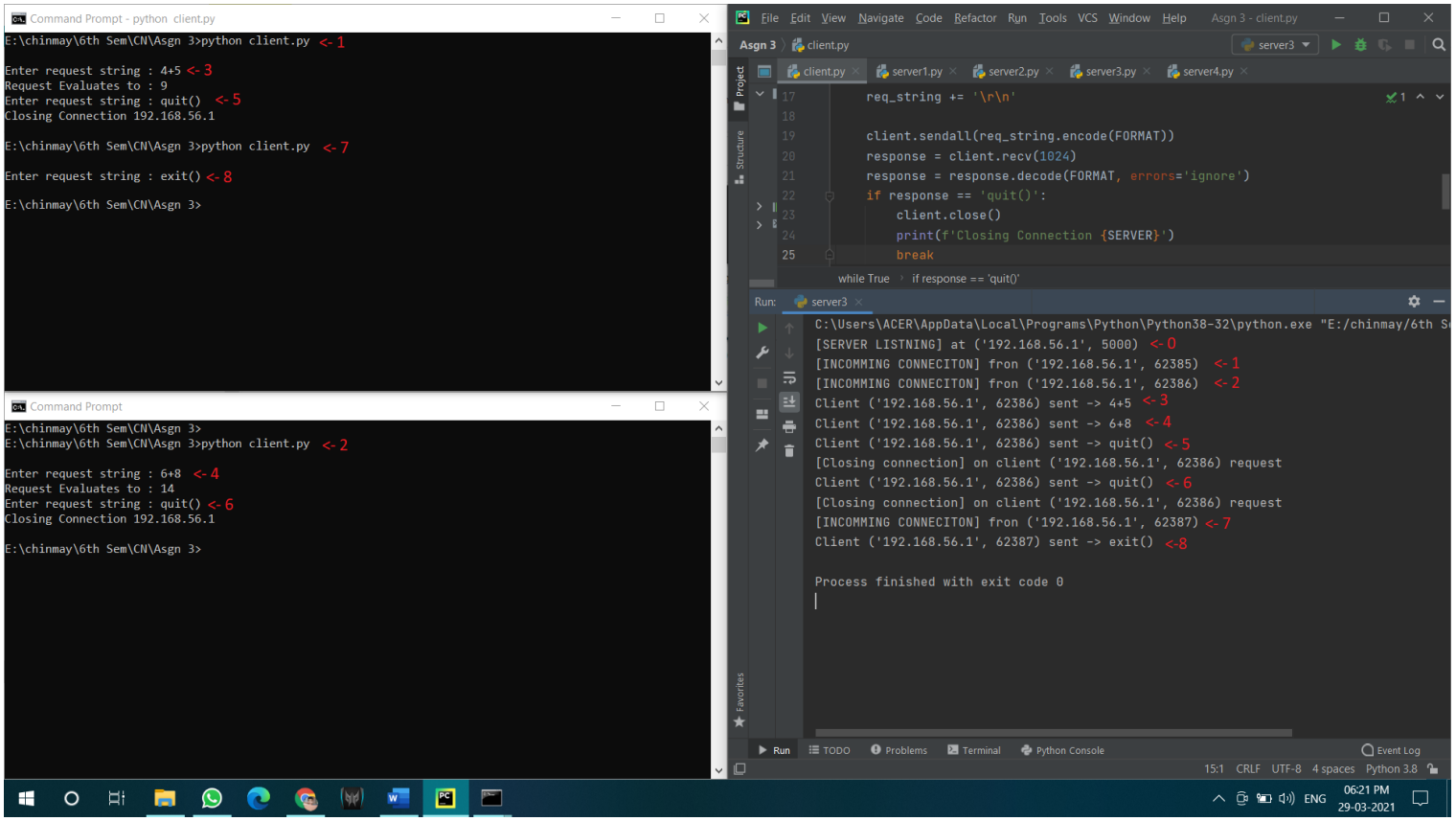
5 -> req == quit() [Connection is closed between client 1 and server]

6 -> req == quit() [Connection is closed between client 2 and server]

(Server is still open to listen connection)

7 -> establishing connection between client 3 and server.

3. Server3.py



Setblocking is “True” by-default, hence it is set to “False” so that control over user must be entirely on user rather than kernel

```
server.setblocking(False)
```

Lists for inputs and outputs are used to store connection requests and their respective outputs

```
inputs = [server]
outputs = []
```

Order **1** and **2** for establishing connection.

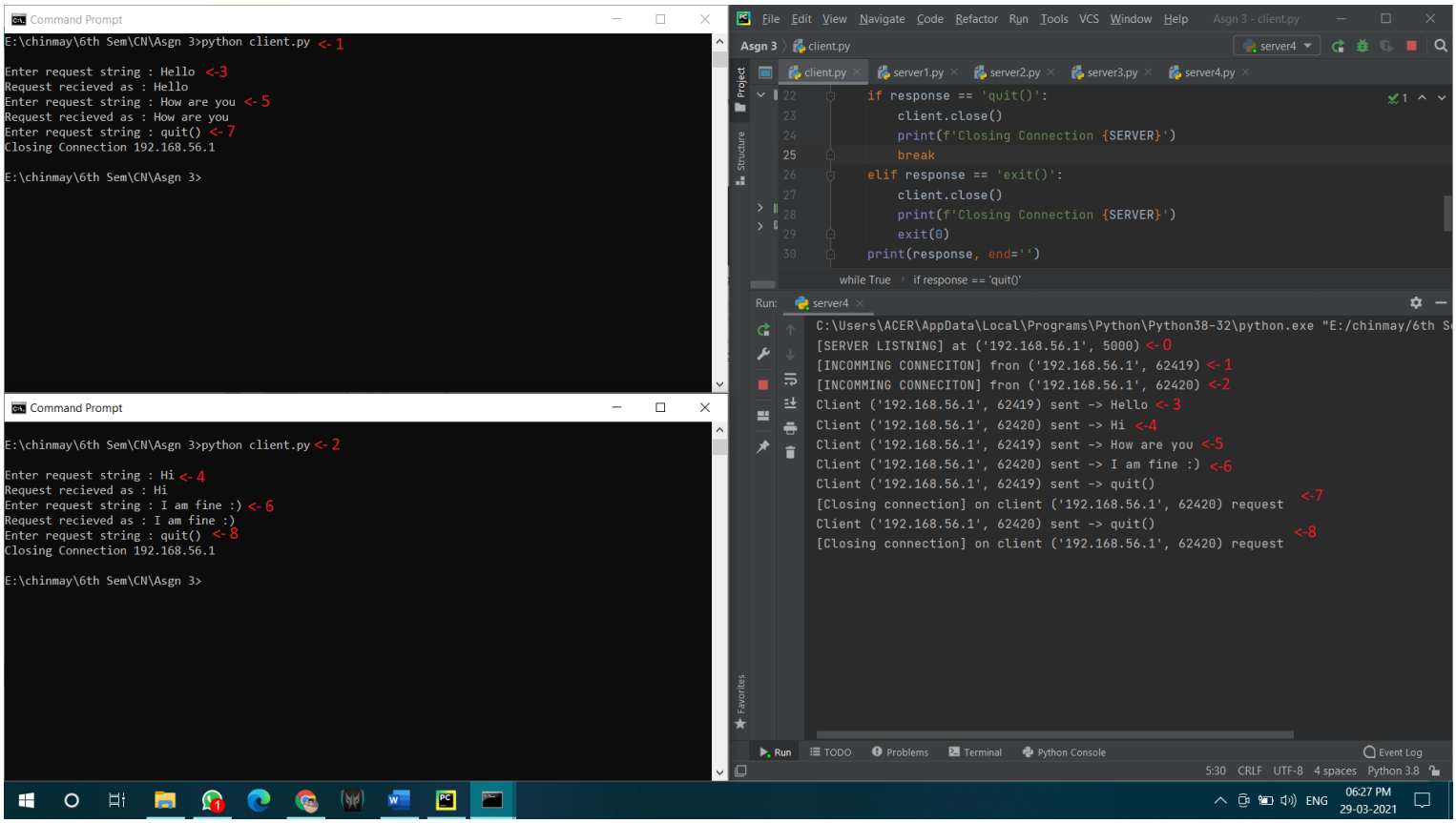
Order **3** and **4** indicates requests which are then evaluated by server.

Order **5** and **6** indicates closing of connection between clients and server3.

Order **7** shows new connection from client3.

Order **8** shows exit() request which closed the **connection and halted** the server socket.

4. Server4.py



Server_4 differs from Server_3 by request handle, unlike server_3 it does not evaluate the request but rather just respond with the same string.

Beside Order **1** and **2** (connection), Order **3 to 8** shows set of request-response pair between clients and the server.