

INSTRUCTIONS TO RUN THE CODES

Server1(Single Client)

STEP1:

Open terminal and give server IP and Port number on command line.

`python server1.py 127.0.0.1 5000` (here 5000 is port number and 127.0.0.1 is IP address of local host)

Press Enter then it shows Listening on 127.0.0.1 :5000.

STEP2:

Open another terminal Server IP and Port number is given on command line

`python client.py 127.0.0.1 5000`

press enter it shows Connected to server.

Server displays connected with client socket number x.

STEP3:

Client displays Please enter the message to the server then user enters the message.

Displays server replied: result

STEP4:

Server displays Client socket number x sent message:

Sending reply: result

STEP 5: If client wants to terminate enter CTRL+C

Server2(multi-threaded server):

STEP1:

Open terminal and give server IP and Port number on command line

`python server2.py 127.0.0.1 5000` (here 5000 is port number and 127.0.0.1 is IP address of local host)

Press Enter then it shows Listening on 127.0.0.1 :5000

STEP2:

Open another terminal Server IP and Port number is given on command line

`python client.py 127.0.0.1 5000`

Press enter it shows Connected to server.

Server displays connected with client socket number x.

STEP3:

Client displays Please enter the message to the server then user enters the message

Displays server replied: result.

STEP4:

Client socket number x sent message.

Sending reply: result

STEP5:

Open another terminal Server IP and Port number is given on command line

`python client2.py 127.0.0.1 5000`

Press enter it shows Connected to server.

Server displays connected with client socket number y.

STEP6:

Client displays Please enter the message to the server then user enters the message.

Displays server replied: result

STEP7:

Client socket number y sent message:

Sending reply: result

STEP8: If client wants to terminate enter CTRL+C

We can run multiple clients simultaneously with server2.

Server 3(Select method for handling multiple clients)

STEP1:

Open terminal and give server IP and Port number on command line

`python server2.py 127.0.0.1 5000` (here 5000 is port number and 127.0.0.1 is IP address of local host)

Press Enter then it shows Listening on 127.0.0.1 :5000

STEP2:

Open another terminal Server IP and Port number is given on command line.

`python client.py 127.0.0.1 5000`

Press enter it shows Connected to server.

Server displays connected with client socket number x.

STEP3:

Client displays Please enter the message to the server then user enters the message.

Displays server replied: result.

STEP4:

Client socket number x sent message:

Sending reply: result

STEP5:

Open another terminal Server IP and Port number is given on command line

`python client2.py 127.0.0.1 5000`

Press enter it shows Connected to server.

Server displays connected with client socket number y.

STEP6:

Client displays Please enter the message to the server then user enters the message.

Displays server replied: result.

STEP7:

Client socket number y sent message:

Sending reply: result

STEP8: If client wants to terminate enter CTRL+C

SERVER 4(echo server):

STEP1:

Open terminal and give server IP and Port number on command line.

`python server2.py 127.0.0.1 5000` (here 5000 is server port number and 127.0.0.1 is IP address of local host)

Press Enter then it shows New Client connected :(' 127.0.0.1,61036') Here 61036 is client port number

STEP2:

Open another terminal Server IP and Port number is given on command line.

`python client.py 127.0.0.1 5000`

Press enter it shows Connected to server.

STEP3:

Client displays Please enter the message to the server then user enters: 5+3

Server replied: 5+3

STEP4:

Server displays Client socket number x sent message:5+3

Sending reply:5+3

STEP5:

Open another terminal Server IP and Port number is given on command line

`python client2.py 127.0.0.1 5000`

Press enter it shows Connected to server.

Server displays New Client connected :(' 127.0.0.1,61060') Here 61060 is client port number

STEP6:

Client displays Please enter the message to the server then user enters: hii

Server replied: hii

STEP7:

Server displays Client socket number x sent message:5+3

Sending reply:5+3

STEP8: If client wants to terminate enter CTRL+C

TESTCASES OUTPUTS OF 4 SERVERS:

SERVER1

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PS C:\Users\salon\Downloads\Tut3> python server1.py 127.0.0.1 5000
Listening on 127.0.0.1 : 5000
Connected with client socket number 472
Client socket 472 sent message: 3+6
Sending reply: 9
Client socket 472 sent message: 7*7
Sending reply: 49
Client socket 472 sent message: 1*7
Sending reply: 7
█
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try:
18 # Receive data from the client
19 data = conn.recv(1024)
20 if not data:
21     break
22 # If no data received, client has terminated
23 # Send the result back to the client
24 conn.sendall(result)
25 # Close the connection
26 conn.close()
27 except KeyboardInterrupt:
28     print("Server terminated by Ctrl+C")
29     break
30 except Exception as e:
31     print(f"Error: {e}")
32
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
Connected to server
Please enter the message to the server: 3+6
Server replied: 9
Please enter the message to the server: 7*7
Server replied: 49
Please enter the message to the server: 1*7
Server replied: 7
Please enter the message to the server: █
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```
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
PS C:\Users\salon\Downloads\Tut3> python server2.py 127.0.0.1 5000
Listening on 127.0.0.1:5000
Connected with 127.0.0.1:51532
Connected with client socket number 384
Client socket 384 sent message: 6*9
Sending reply: 54
Connected with 127.0.0.1:51534
Connected with client socket number 428
Client socket 428 sent message: 9/4
Sending reply: 2.25
```

```
PS C:\Users\salon\Downloads\Tut3> python client.py 127.0.0.1 5000
Connected to server
Please enter the message to the server: 6*9
Server replied: 54
Please enter the message to the server: 3+6
Server replied: 9
```

```
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
PS C:\Users\salon\Downloads\Tut3> python client2.py 127.0.0.1 5000
Connected to server
Please enter the message to the server: 9/4
Server replied: 2.25
Please enter the message to the server: 6/4+8
Server replied: 9.5
Please enter the message to the server: 7%3
Server replied: 1
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
PS C:\Users\salon\Downloads\Tut3> python server3.py 127.0.0.1 5000
Listening on 127.0.0.1:5000
Connected with client socket number 420
Client socket 420 sent message: 70%6
Sending reply: 4
Client socket 420 sent message: 8*8+8-8
Sending reply: 64
Connected with 127.0.0.1:60882
Connected with client socket number 424
Client socket 424 sent message: 90-67
Sending reply: 23
```

WHEN WE ENTER CTRL+C IT SHOWS KEYBOARD INTERRUPT

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
PS C:\Users\salon\Downloads\Tut3> python client.py 127.0.0.1 5000
Please enter the message to the server: 70%6
Server replied: 4
Please enter the message to the server: 8*8+8-8
Server replied: 64
Please enter the message to the server: Traceback (most recent call last):
  File "C:\Users\salon\Downloads\Tut3\client.py", line 24, in <module>
    client_program()
  File "C:\Users\salon\Downloads\Tut3\client.py", line 14, in client_program
    message = input("Please enter the message to the server: ")
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
KeyboardInterrupt
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
PS C:\Users\salon\Downloads\Tut3> python client2.py 127.0.0.1 5000
Connected to server
Please enter the message to the server: 90-67
Server replied: 23
Please enter the message to the server: 4+5-9+7
Server replied: 7
Please enter the message to the server: 3-8
Server replied: -5
Please enter the message to the server: 
```

```
client_socket.send(message.encode())
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
PS C:\Users\salon\Downloads\Tut3> python server4.py 127.0.0.1 5000
New client connected: ('127.0.0.1', 61036)
Client socket 412 sent message: 27/100*100
Sending reply: 27/100*100
Client socket 412 sent message: hii
Sending reply: hii
Client socket 412 sent message: bye
Sending reply: bye
New client connected: ('127.0.0.1', 61060)
Client socket 416 sent message: hw r u
Sending reply: hw r u
Client socket 416 sent message: get lost
Sending reply: get lost
```

```
PS C:\Users\salon\Downloads\Tut3> python client.py 127.0.0.1 5000
Connected to server
Please enter the message to the server: 27/100*100
Server replied: 27/100*100
Please enter the message to the server: hii
Server replied: hii
Please enter the message to the server: bye
Server replied: bye
Please enter the message to the server: 
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
PS C:\Users\salon\Downloads\Tut3> python client2.py 127.0.0.1 5000
Connected to server
Please enter the message to the server: hw r u
Server replied: hw r u
Please enter the message to the server: get lost
Server replied: get lost
Please enter the message to the server: 7/4
Server replied: 7/4
Please enter the message to the server: 
```