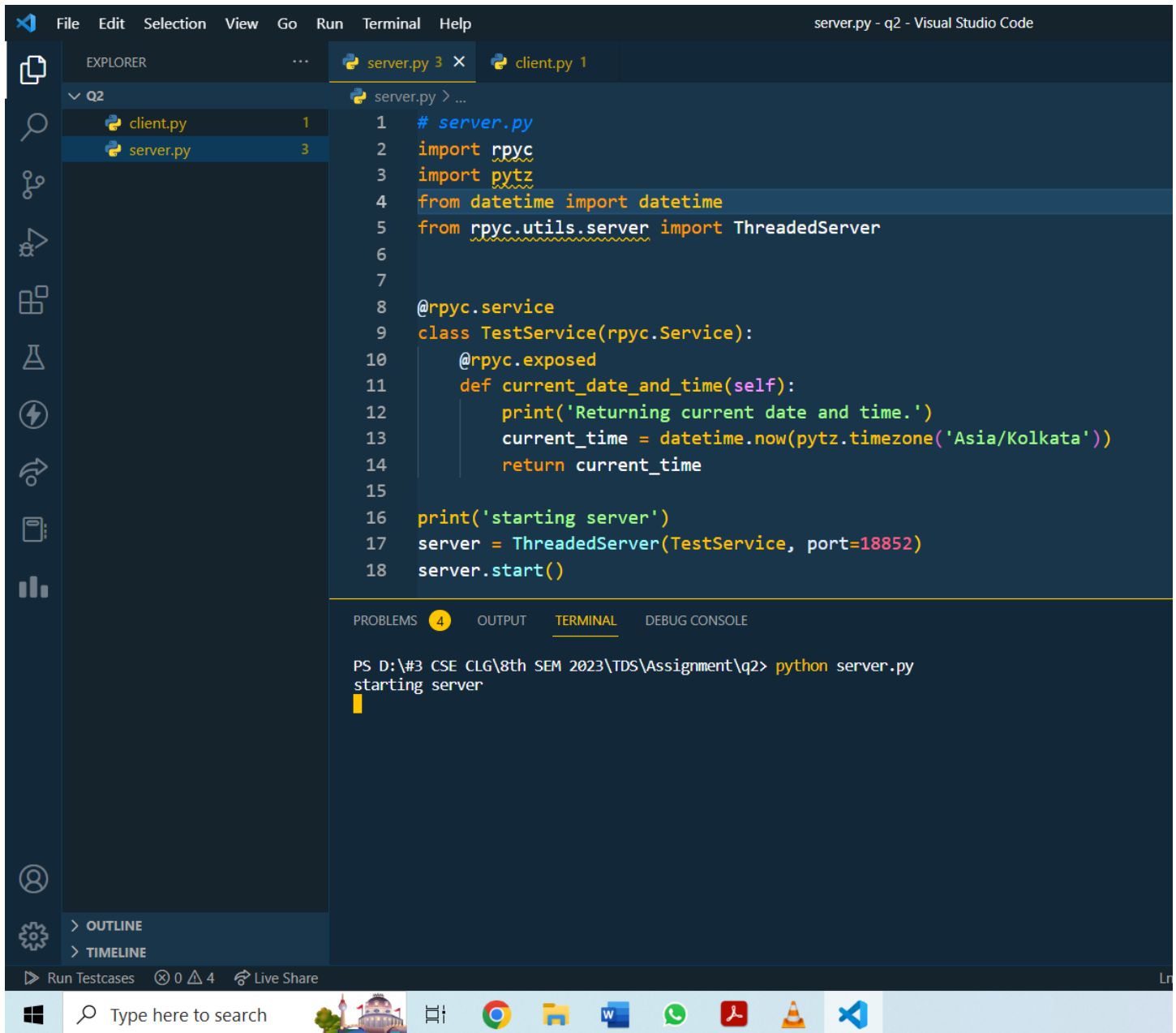


Enroll no. BT19CSE036

Name: Hasan Koser

Question-2

Initially we will start the server which will look like this



The screenshot displays the Visual Studio Code interface. The Explorer panel on the left shows a project named 'Q2' containing two files: 'client.py' and 'server.py'. The 'server.py' file is open in the editor, showing the following code:

```
1 # server.py
2 import rpyc
3 import pytz
4 from datetime import datetime
5 from rpyc.utils.server import ThreadedServer
6
7
8 @rpyc.service
9 class TestService(rpyc.Service):
10     @rpyc.exposed
11     def current_date_and_time(self):
12         print('Returning current date and time.')
13         current_time = datetime.now(pytz.timezone('Asia/Kolkata'))
14         return current_time
15
16 print('starting server')
17 server = ThreadedServer(TestService, port=18852)
18 server.start()
```

The TERMINAL panel at the bottom shows the command prompt output:

```
PS D:\#3 CSE CLG\8th SEM 2023\TDS\Assignment\q2> python server.py
starting server
```

The Windows taskbar at the bottom includes the Start button, a search bar, and several application icons including a university building, File Explorer, Word, WhatsApp, a PDF reader, a presentation viewer, and Visual Studio Code.

Then we will start client and see the current date and time.

The screenshot displays the Visual Studio Code interface with the following components:

- Explorer Panel:** Shows a project named 'Q2' containing two files: 'client.py' (1 line) and 'server.py' (3 lines).
- Editor Panel:** Displays the code for 'client.py' with the following content:

```
1 import rpyc
2 connection = rpyc.connect('localhost', 18852)
3
4 current_time = connection.root.current_date_and_time()
5 print("Current date and time is ",current_time)
```
- Terminal Panel:** Shows the execution of the script. The command 'python client.py' has been run, resulting in the output: 'Current date and time is 2023-02-20 21:22:29.919984+05:30'.
- Taskbar:** The Windows taskbar at the bottom includes the Start button, a search bar, and several pinned applications: a custom icon, Google Chrome, File Explorer, Microsoft Word, WhatsApp, Adobe Reader, VLC media player, and Visual Studio Code.

Finally the changes will be reflected in server like this

