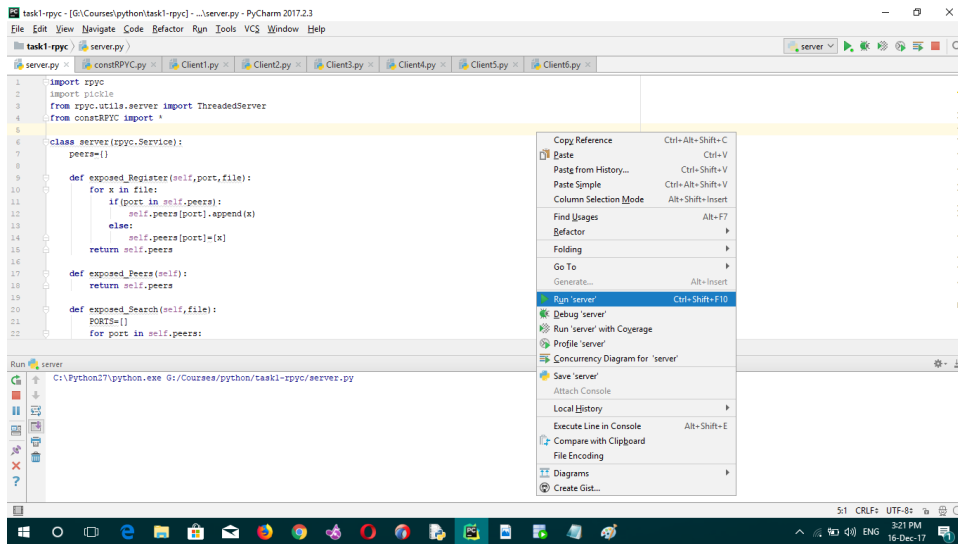


Verification of Task #1

Test case #1:

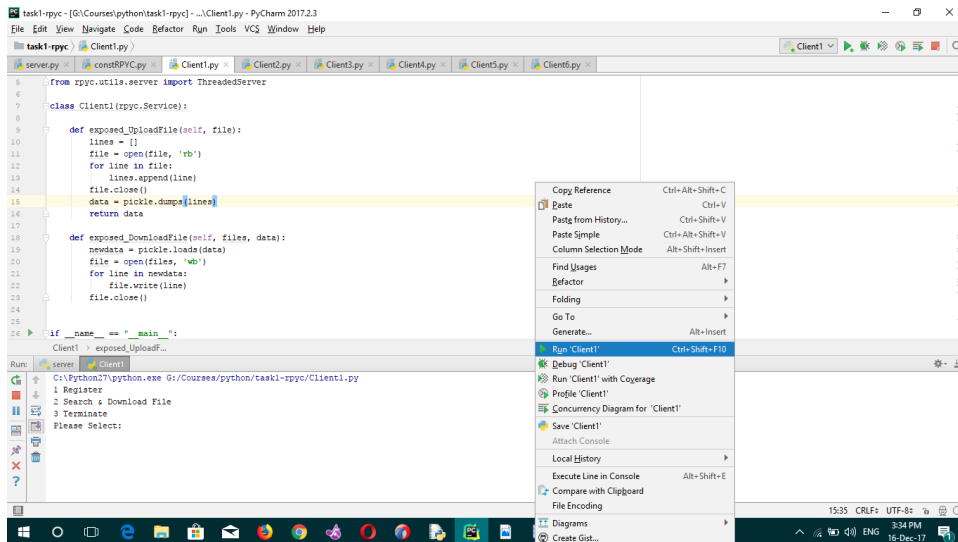
This test case will treat with document files

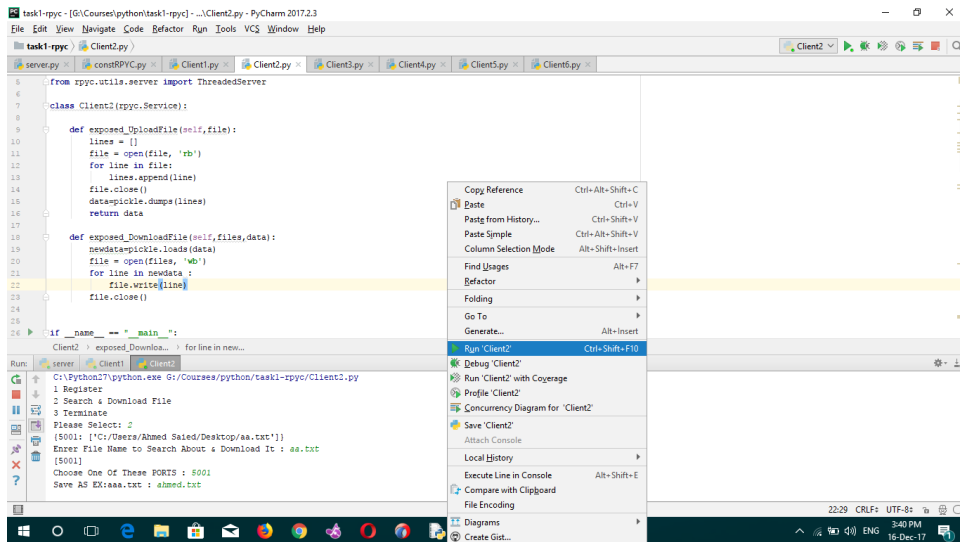
We will run first the server:



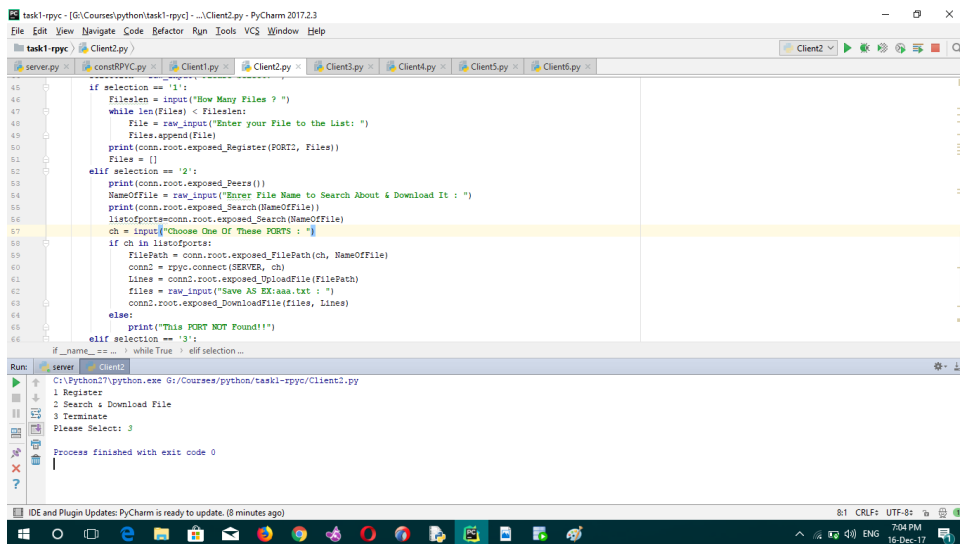
Then we will run the first & second peer:

The first peer will register with that file & the second will download it





Then make terminate operation for all peers



Test case 2:

This test case will treat with images

After running server & peers as above just download the file with the same extension

Here we will register two pic to the same peer and download each of them

```
task1-rpyc - [G:\Courses\python\task1-rpyc] - \Client1.py - PyCharm 2017.2.3
File Edit View Navigate Code Refactor Run Tools VCS Window Help

task1-rpyc - Client1.py
server.py - Client1.py - Client2.py - Client3.py - Client4.py - Client5.py - Client6.py

5 from rpyc.utils.server import ThreadedServer
6
7 class Client1(rpyc.Service):
8
9     def exposed_uploadFile(self, file):
10         lines = []
11         file = open(file, 'rb')
12         for line in file:
13             lines.append(line)
14         file.close()
15         data = pickle.dumps(lines)
16         return data
17
18     def exposed_downloadFile(self, files, data):
19         newdata = pickle.loads(data)
20         file = open(files, 'wb')
21         for line in newdata:
22             file.write(line)
23         file.close()
24
25 if __name__ == '__main__':
26     Client1().exposed_uploadFile... for line in file

Run server Client1
3 Search & Download File
4 Terminate
Please Select: 1
How Many Files ? 2
Enter your File to the List: C:/Users/Ahmed Said/Desktop/1.png
Enter your File to the List: C:/Users/Ahmed Said/Desktop/2.png
5001: ['C:/Users/Ahmed Said/Desktop/1.png', 'C:/Users/Ahmed Said/Desktop/2.png']
1 Register
2 Search & Download File
3 Terminate
Please Select:

IDE and Plugin Updates: PyCharm is ready to update. (15 minutes ago) 246 chars, 4 line breaks 5:1 CRLF UTF-8 7:10 PM 16-Dec-17
```

```
task1-rpyc - [G:\Courses\python\task1-rpyc] - \Client2.py - PyCharm 2017.2.3
File Edit View Navigate Code Refactor Run Tools VCS Window Help

task1-rpyc - Client2.py
server.py - Client1.py - Client2.py - Client3.py - Client4.py - Client5.py - Client6.py

45 if selection == '1':
46     filesize = input("How Many Files ? ")
47     while len(files) < filesize:
48         file = raw_input("Enter your File to the List: ")
49         files.append(file)
50     print(conn.root.exposed_register(PORT2, files))
51     files = []
52 elif selection == '2':
53     print(conn.root.exposed_peers())
54     NameOffile = raw_input("Enter File Name to Search About & Download It : ")
55     print(conn.root.exposed_search(NameOffile))
56     listofports=conn.root.exposed_search(NameOffile)
57     ch = input("Choose One Of These PORTS : ")
58     if ch in listofports:
59         filePath = conn.root.exposed_filepath(ch, NameOffile)
60         conn2 = rpyc.connect(SERVER, ch)
61         lines = conn2.root.exposed_uploadFile(filePath)
62         files = raw_input("Save AS EX:aaa.txt : ")
63         conn2.root.exposed_downloadFile(files, lines)
64     else:
65         print("This PORT NOT Found!!")
66 elif selection == '3':
67     while True:
68         self.selection...

Run server Client1 Client2
3 Terminate
Please Select: 2
5001: ['C:/Users/Ahmed Said/Desktop/1.png', 'C:/Users/Ahmed Said/Desktop/2.png']
Enter File Name to Search About & Download It : 2.png
5001
Choose One Of These PORTS : 5001
Save AS EX:aaa.txt : 2.png
1 Register
2 Search & Download File
3 Terminate
Please Select:

IDE and Plugin Updates: PyCharm is ready to update. (18 minutes ago) 222 chars, 5 line breaks 14:1 CRLF UTF-8 7:13 PM 16-Dec-17
```

The result

