

Instructions for executing client-server solution for file management:

Client server solution will be executed as

Server:

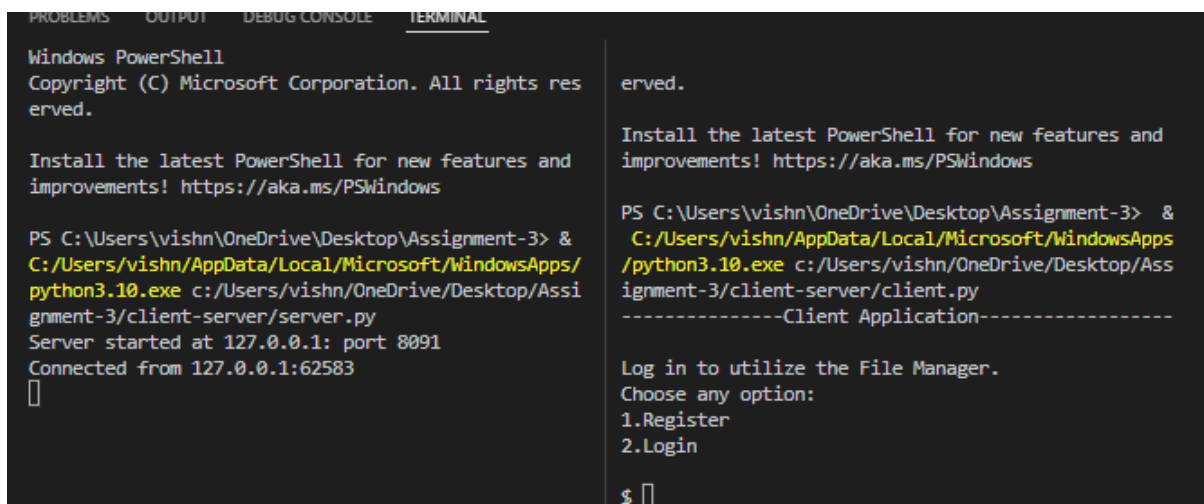
1. Start the terminal
2. Go to the directory where the client server is located
3. Execute the python file using server.py
4. The server will begin start listen for connections and output will be displayed.



A screenshot of a Windows PowerShell terminal window. The title bar shows 'powershell' and 'Python'. The terminal text includes the standard PowerShell copyright notice, a link to install the latest PowerShell, and the command: `PS C:\Users\vishn\OneDrive\Desktop\Assignment-3> & C:/Users/vishn/AppData/Local/Microsoft/WindowsApps/python3.10.exe c:/Users/vishn/OneDrive/Desktop/Assignment-3/client-server/server.py`. The output shows 'Server started at 127.0.0.1: port 8091'.

Client:

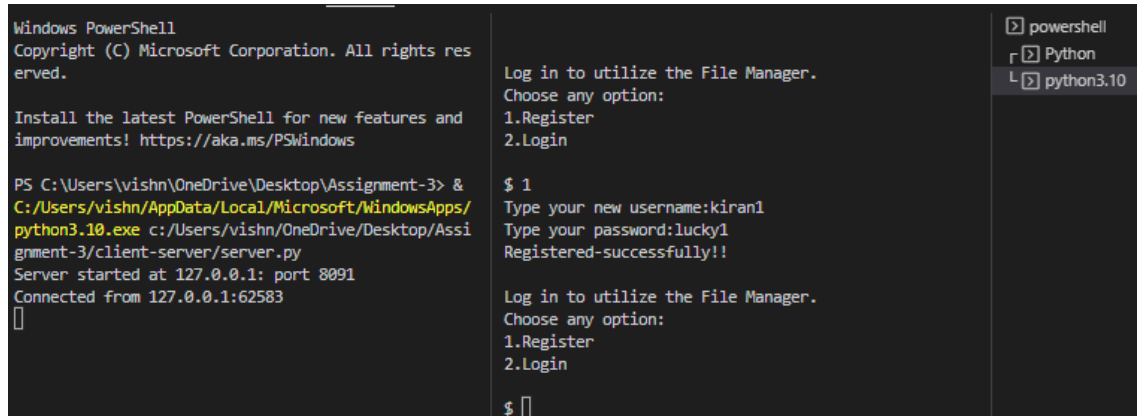
1. Start the new terminal
2. Go to the folder where the client.py file is located (we may execute client.py from anywhere)
3. Execute the python file using client.py
4. The client will connect to the server and asks about to register, and login as seen below



A screenshot of a Windows PowerShell terminal window with two panes. The left pane shows the command: `PS C:\Users\vishn\OneDrive\Desktop\Assignment-3> & C:/Users/vishn/AppData/Local/Microsoft/WindowsApps/python3.10.exe c:/Users/vishn/OneDrive/Desktop/Assignment-3/client-server/client.py`. The output shows 'Server started at 127.0.0.1: port 8091' and 'Connected from 127.0.0.1:62583'. The right pane shows the output of the client.py script, which includes a separator line '-----Client Application-----', a prompt 'Log in to utilize the File Manager.', and a list of options: '1.Register' and '2.Login'. The prompt ends with '\$ '.

Steps for sending a service request to the client:

1. Before initiating service requests, the user must first log in to the server.
2. If the user is attempting the first entry, the user needs to register by username and password



```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\vishn\OneDrive\Desktop\Assignment-3> &
C:/Users/vishn/AppData/Local/Microsoft/WindowsApps/
python3.10.exe c:/Users/vishn/OneDrive/Desktop/Assi
gnment-3/client-server/server.py
Server started at 127.0.0.1: port 8091
Connected from 127.0.0.1:62583
[]

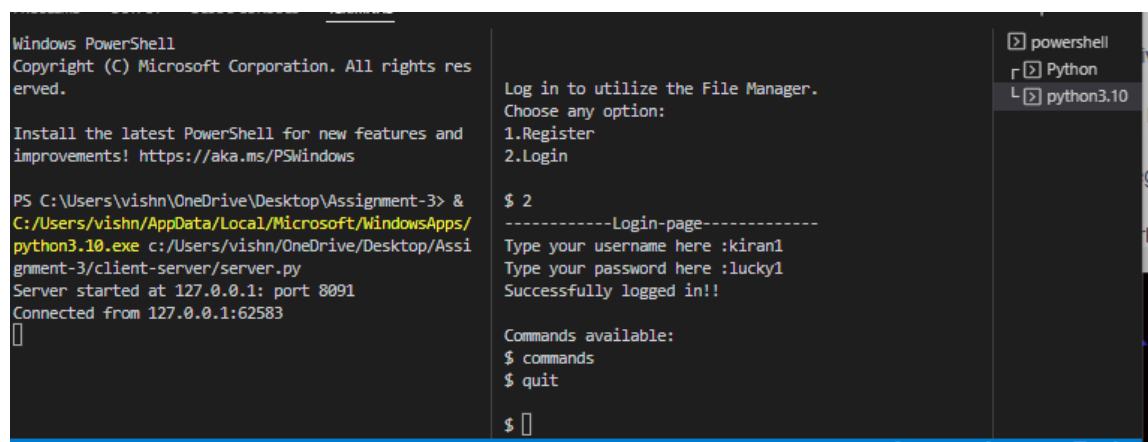
Log in to utilize the File Manager.
Choose any option:
1.Register
2.Login

$ 1
Type your new username:kiran1
Type your password:lucky1
Registered-successfully!!

Log in to utilize the File Manager.
Choose any option:
1.Register
2.Login

$ []
```

3. After registering the user need to login with previous details as shown below



```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\vishn\OneDrive\Desktop\Assignment-3> &
C:/Users/vishn/AppData/Local/Microsoft/WindowsApps/
python3.10.exe c:/Users/vishn/OneDrive/Desktop/Assi
gnment-3/client-server/server.py
Server started at 127.0.0.1: port 8091
Connected from 127.0.0.1:62583
[]

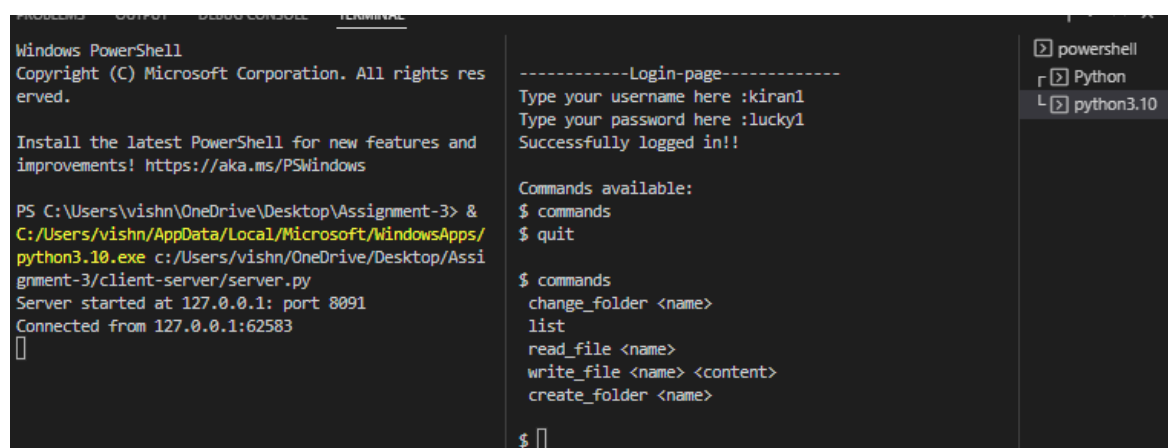
Log in to utilize the File Manager.
Choose any option:
1.Register
2.Login

$ 2
-----Login-page-----
Type your username here :kiran1
Type your password here :lucky1
Successfully logged in!!

Commands available:
$ commands
$ quit

$ []
```

4. The user can use commands command to learn more about the various file service commands.



```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\vishn\OneDrive\Desktop\Assignment-3> &
C:/Users/vishn/AppData/Local/Microsoft/WindowsApps/
python3.10.exe c:/Users/vishn/OneDrive/Desktop/Assi
gnment-3/client-server/server.py
Server started at 127.0.0.1: port 8091
Connected from 127.0.0.1:62583
[]

-----Login-page-----
Type your username here :kiran1
Type your password here :lucky1
Successfully logged in!!

Commands available:
$ commands
$ quit

$ commands
change_folder <name>
list
read_file <name>
write_file <name> <content>
create_folder <name>

$ []
```

5. Now user can run all the commands as shown above and the commands as resulted below.

<pre>Windows PowerShell Copyright (C) Microsoft Corporation. All rights reserved. Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows PS C:\Users\vishn\OneDrive\Desktop\Assignment-3> & C:/Users/vishn/AppData/Local/Microsoft/WindowsApps/python3.10.exe c:/Users/vishn/OneDrive/Desktop/Assignment-3/client-server/server.py Server started at 127.0.0.1: port 8091 Connected from 127.0.0.1:62583 █</pre>	<pre>Successfully logged in!! Commands available: \$ commands \$ quit \$ commands change_folder <name> list read_file <name> write_file <name> <content> create_folder <name> \$ write_file kiran1 hello this is kiran Written to file \$ █</pre>	<div>powershell</div> <div>Python</div> <div>python3.10</div>
--	---	---

<pre>Windows PowerShell Copyright (C) Microsoft Corporation. All rights reserved. Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows PS C:\Users\vishn\OneDrive\Desktop\Assignment-3> & C:/Users/vishn/AppData/Local/Microsoft/WindowsApps/python3.10.exe c:/Users/vishn/OneDrive/Desktop/Assignment-3/client-server/server.py Server started at 127.0.0.1: port 8091 Connected from 127.0.0.1:62583 █</pre>	<pre>\$ quit \$ commands change_folder <name> list read_file <name> write_file <name> <content> create_folder <name> \$ write_file kiran1 hello this is kiran Written to file \$ read_file kiran1 hello this is kiran \$ █</pre>	<div>powershell</div> <div>Python</div> <div>python3.10</div>
--	--	---

<pre>Windows PowerShell Copyright (C) Microsoft Corporation. All rights reserved. Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows PS C:\Users\vishn\OneDrive\Desktop\Assignment-3> & C:/Users/vishn/AppData/Local/Microsoft/WindowsApps/python3.10.exe c:/Users/vishn/OneDrive/Desktop/Assignment-3/client-server/server.py Server started at 127.0.0.1: port 8091 Connected from 127.0.0.1:62583 █</pre>	<pre>change_folder <name> list read_file <name> write_file <name> <content> create_folder <name> \$ write_file kiran1 hello this is kiran Written to file \$ read_file kiran1 hello this is kiran \$ list kiran1 \$ █</pre>	<div>powershell</div> <div>Python</div> <div>python3.10</div>
--	---	---

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\vishn\OneDrive\Desktop\Assignment-3> & C:/Users/vishn/AppData/Local/Microsoft/WindowsApps/python3.10.exe c:/Users/vishn/OneDrive/Desktop/Assignment-3/client-server/server.py
Server started at 127.0.0.1: port 8091
Connected from 127.0.0.1:62583
[]

write_file <name> <content>
create_folder <name>

$ write_file kiran1 hello this is kiran
Written to file

$ read_file kiran1
hello this is kiran

$ list
kiran1

$ create_folder testfolder1
Created new Directory

$ []
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\vishn\OneDrive\Desktop\Assignment-3> & C:/Users/vishn/AppData/Local/Microsoft/WindowsApps/python3.10.exe c:/Users/vishn/OneDrive/Desktop/Assignment-3/client-server/server.py
Server started at 127.0.0.1: port 8091
Connected from 127.0.0.1:62583
[]

Written to file

$ read_file kiran1
hello this is kiran

$ list
kiran1

$ create_folder testfolder1
Created new Directory

$ list
kiran1
testfolder1

$ []
```

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\vishn\OneDrive\Desktop\Assignment-3> & C:/Users/vishn/AppData/Local/Microsoft/WindowsApps/python3.10.exe c:/Users/vishn/OneDrive/Desktop/Assignment-3/client-server/server.py
Server started at 127.0.0.1: port 8091
Connected from 127.0.0.1:62583
[]

hello this is kiran

$ list
kiran1

$ create_folder testfolder1
Created new Directory

$ list
kiran1
testfolder1

$ quit
Bye!!
-----Connection closed-----
PS C:\Users\vishn\OneDrive\Desktop\Assignment-3> []
```

6.Pylint score will be calculated using command `pylint <filename>.py`

7.Pylint score is calculated below

```
C:\Users\vishn\OneDrive\Desktop\Assignment-3\client-server>pylint client.py
***** Module client
client.py:56:18: C0303: Trailing whitespace (trailing-whitespace)
client.py:99:41: C0303: Trailing whitespace (trailing-whitespace)
client.py:34:8: W0621: Redefining name 'choice' from outer scope (line 7) (redefined-outer-name)
client.py:56:12: R1722: Consider using sys.exit() (consider-using-sys-exit)
client.py:58:0: R0912: Too many branches (13/12) (too-many-branches)
client.py:7:0: W0611: Unused choice imported from secrets (unused-import)

-----
Your code has been rated at 9.38/10
```

```
C:\Users\vishn\OneDrive\Desktop\Assignment-3\client-server>pylint server.py
***** Module server
server.py:50:7: W0703: Catching too general exception Exception (broad-except)

-----
Your code has been rated at 9.68/10
```

```
C:\Users\vishn\OneDrive\Desktop\Assignment-3\client-server>pylint test_part.py
***** Module test_part
test_part.py:2:49: C0303: Trailing whitespace (trailing-whitespace)
test_part.py:8:0: C0116: Missing function or method docstring (missing-function-docstring)
test_part.py:9:4: W0621: Redefining name 'test_part' from outer scope (line 8) (redefined-outer-name)
test_part.py:6:0: C0411: standard import "import unittest" should be placed before "from unit_test_cases import unit
ter" (wrong-import-order)

-----
Your code has been rated at 8.00/10
```

```
C:\Users\vishn\OneDrive\Desktop\Assignment-3\client-server>pylint request_info.py
***** Module request_info
request_info.py:8:0: C0301: Line too long (164/100) (line-too-long)
request_info.py:86:0: C0301: Line too long (112/100) (line-too-long)
request_info.py:87:0: C0301: Line too long (105/100) (line-too-long)
request_info.py:7:0: C0103: Class name "Request_Info" doesn't conform to PascalCase naming style (invalid-name)
request_info.py:29:15: W0703: Catching too general exception Exception (broad-except)
request_info.py:59:29: E1101: Module 'os' has no 'getcurr_wor_dir' member (no-member)
request_info.py:65:4: R0201: Method could be a function (no-self-use)
request_info.py:74:4: R0201: Method could be a function (no-self-use)
request_info.py:85:4: R0201: Method could be a function (no-self-use)
request_info.py:101:4: R0201: Method could be a function (no-self-use)
request_info.py:118:8: R1705: Unnecessary "elif" after "return" (no-else-return)
request_info.py:113:4: R0911: Too many return statements (9/6) (too-many-return-statements)

-----
Your code has been rated at 8.30/10 (previous run: 8.09/10, +0.21)
```

```
C:\Users\vishn\OneDrive\Desktop\Assignment-3\client-server>pylint JSON_FILE.py
***** Module JSON_FILE
JSON_FILE.py:31:0: C0303: Trailing whitespace (trailing-whitespace)
JSON_FILE.py:1:0: C0103: Module name "JSON_FILE" doesn't conform to snake_case naming style (invalid-name)
JSON_FILE.py:11:4: R1710: Either all return statements in a function should return an expression, or none of them
. (inconsistent-return-statements)

-----
Your code has been rated at 8.70/10 (previous run: 7.83/10, +0.87)
```