Practical 2
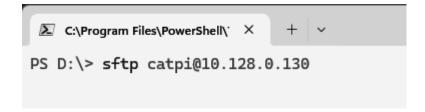
Aim: - Using sftp upload files from PC.

(Note: I am using powershell 7 that has builtin ssh)

Step 1: Run sftp
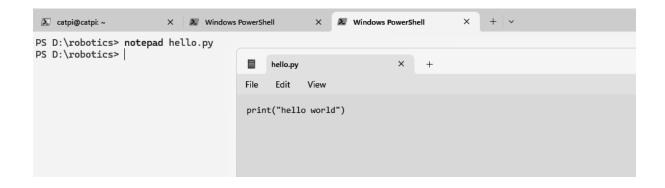
```
sftp <username>@<rasp_ip>
```

```
C:\Program Files\PowerShell\   ×    +   ∨

PS D:\> sftp catpi@10.128.0.130
```

Help menu

```
sftp> help
Available commands:
bye                                 Quit sftp
cd path                             Change remote directory to 'path'
chgrp [-h] grp path                 Change group of file 'path' to 'grp'
chmod [-h] mode path                Change permissions of file 'path' to 'mode'
chown [-h] own path                 Change owner of file 'path' to 'own'
df [-hi] [path]                     Display statistics for current directory or
                                    filesystem containing 'path'
exit                                Quit sftp
get [-afpR] remote [local]          Download file
help                                Display this help text
lcd path                            Change local directory to 'path'
lls [ls-options [path]]             Display local directory listing
lmkdir path                         Create local directory
ln [-s] oldpath newpath             Link remote file (-s for symlink)
lpwd                                Print local working directory
ls [-1afhlnrSt] [path]              Display remote directory listing
lumask umask                        Set local umask to 'umask'
mkdir path                          Create remote directory
progress                            Toggle display of progress meter
put [-afpR] local [remote]          Upload file
pwd                                 Display remote working directory
quit                                Quit sftp
reget [-fpR] remote [local]         Resume download file
rename oldpath newpath              Rename remote file
reput [-fpR] local [remote]         Resume upload file
rm path                             Delete remote file
rmdir path                          Remove remote directory
symlink oldpath newpath             Symlink remote file
version                             Show SFTP version
!command                            Execute 'command' in local shell
!                                   Escape to local shell
?                                   Synonym for help
sftp>
```

Check the current directory of raspberry pi we are in

```
sftp> pwd
Remote working directory: /home/catpi
sftp>
```

Step 2: Create a python file on main system

```
catpi@catpi: ~        ×    Windows PowerShell    ×    Windows PowerShell    ×    +    ∨

PS D:\robotics> notepad hello.py
PS D:\robotics>

        hello.py              ×    +

    File    Edit    View

    print("hello world")
```

Step 3: Upload the created file on Raspberry Pi

```
sftp> put D:\robotics\hello.py
Uploading D:/robotics/hello.py to /home/catpi/hello.py
D:/robotics/hello.py
sftp>
```

Step 4: Check the uploaded file on Rasberry Pi

```
catpi@catpi:~ $ ls
hello.py
catpi@catpi:~ $ python hello.py
hello world
catpi@catpi:~ $
```

```
catpi@catpi:~ $ cat hello.py
print("hello world")catpi@catpi:~ $
```