Practical No 10

Aim: Write A Program To Implement Socket In Python.

Server.py
```
import socket
s = socket.socket()
host = socket.gethostname()
port = 12345
s.bind((host, port))
s.listen(5)
print("Server started")
print("Waiting for connections")
while True:
    c, addr = s.accept()
    print("Connected to : ", addr)
    c.send(bytes("Hi There", "utf-8"))
    c.close()
    break
```

```
PS C:\MyWork\CS-Sem-2> python -u "c:\MyWork\CS-Sem-2\advancedPython\Practical Code\server.py"
Server started
Waiting for connections
Connected to :  ('192.168.17.1', 65053)
```

client.py
```
import socket
s = socket.socket()
host = socket.gethostname()
port = 12345
s.connect((host, port))
print(s.recv(1024).decode("utf-8"))
s.close()
```

```
PS C:\MyWork\CS-Sem-2> python -u "c:\MyWork\CS-Sem-2\advancedPython\Practical Code\client.py"
Hi There
```

Steps To Run The Program:
1. Run The server.py on idle shell.
2. Locate the directory in which the client.py file in file explorer.
3. Open Terminal in that directory and run this command "python client.py"(client filename).

Note:
1. Run server and client file on separate terminal.
2. You can run server/client on idle shell, then run the other file as shown above.