

DISTRIBUTED SYSTEMS

LAB ASSIGNMENT-1

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COURSE CODE:CSI3012

SLOT:L45+L46

1.CLIENT AND SERVER CONNECTION USING SOCKET PROGRAMMING

CODE:

FILENAME:client.py

```
import socket
```

```
HOST = "127.0.0.1"
```

```
PORT = 6551
```

```
s = socket.socket(socket.AF_INET,socket.SOCK_STREAM)
```

```
s.connect((HOST, PORT))
```

```
while True:
```

```
    data = s.recv(1024).decode("UTF - 8")
```

```
    print(data)
```

```
    text = input("\n-> ")
```

```
    s.send(text.encode("UTF-8"))
```

CODE:

FILENAME:server.py

```
import socket
```

```
HOST = "127.0.0.1"
```

```
PORT = 6551
```

```
s = socket.socket(socket.AF_INET,socket.SOCK_STREAM)
```

```
s.setsockopt(socket.SOL_SOCKET,socket.SO_REUSEADDR,1)
```

```
s.bind((HOST,PORT))
```

```
s.listen(0)
```

```
conn, addr = s.accept()
```

```
print("Received Connection from {}:{}".format(addr[0],addr[1]))
```

```
while True:
```

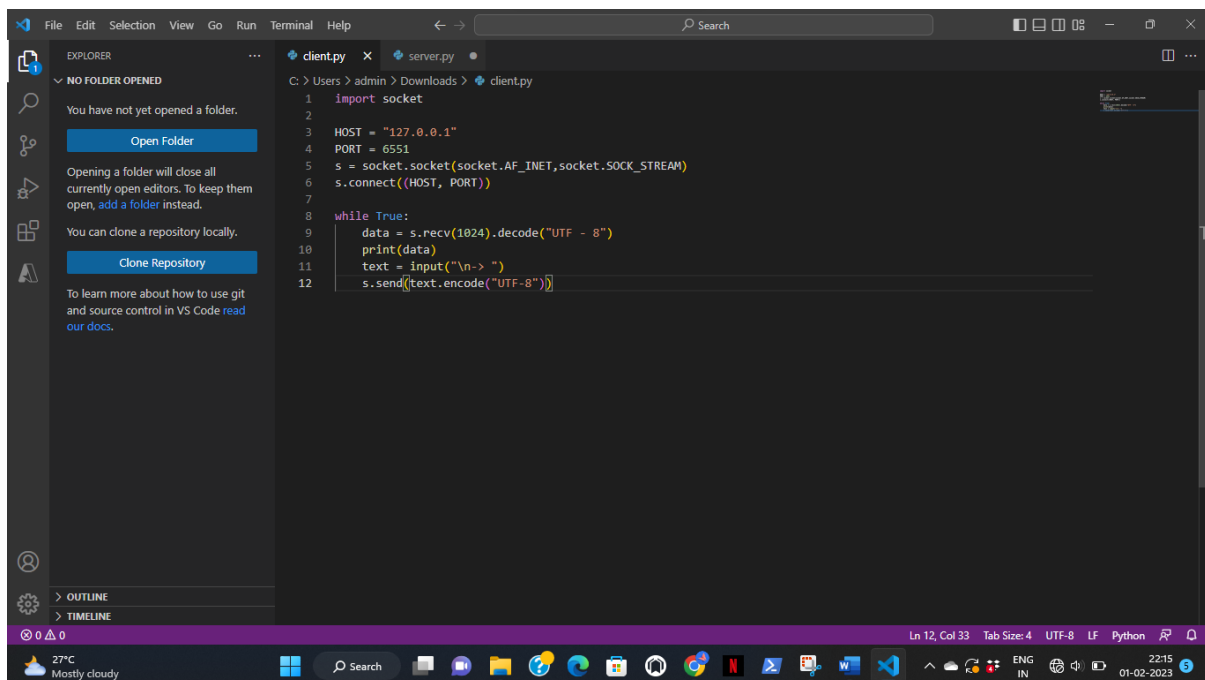
```
    userInput = input("\n-> ")
```

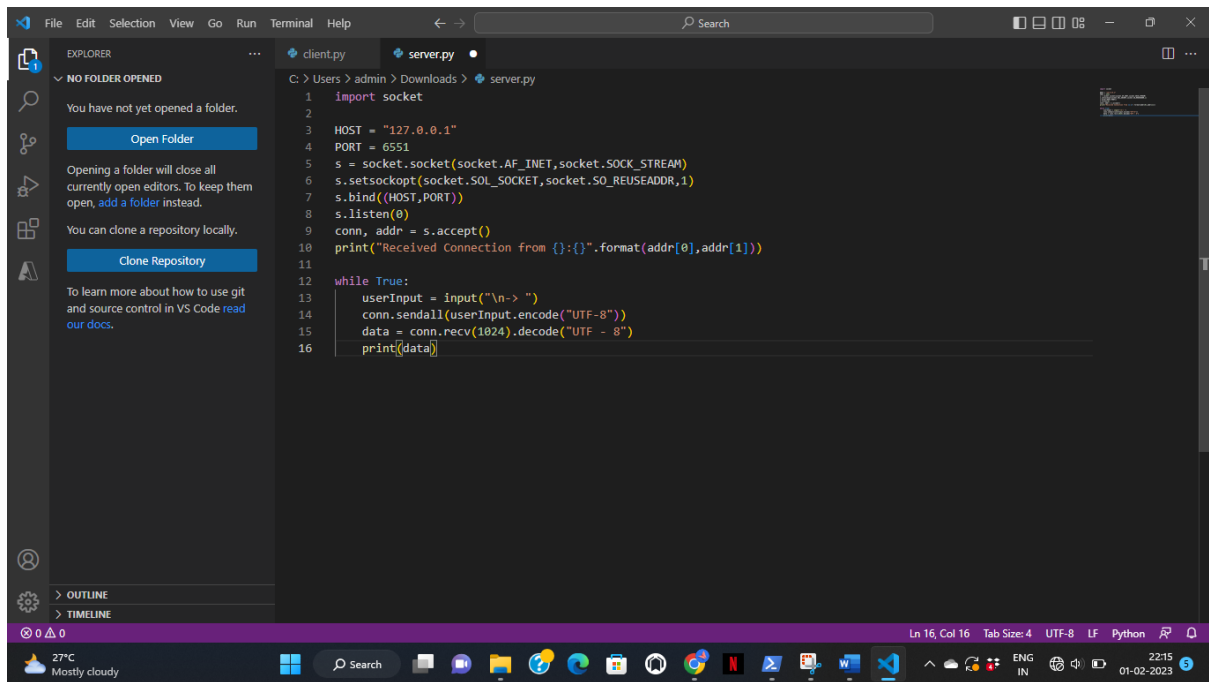
```
    conn.sendall(userInput.encode("UTF-8"))
```

```
    data = conn.recv(1024).decode("UTF - 8")
```

```
    print(data)
```

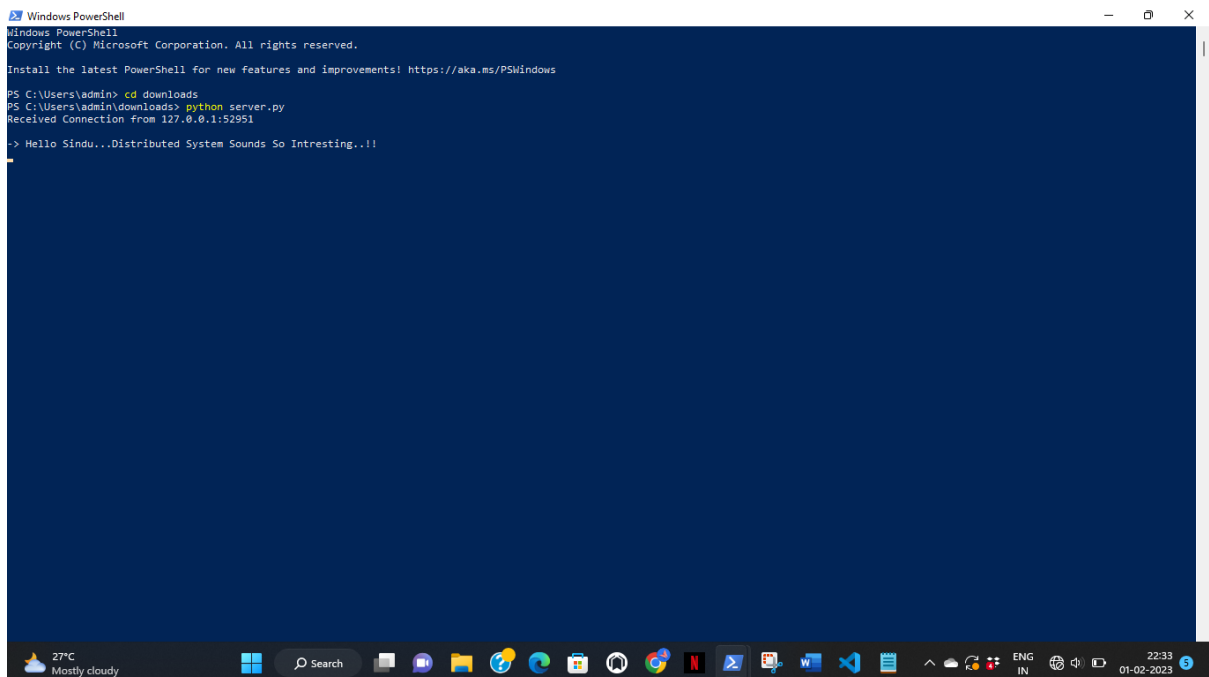
IMPLEMENTATION:





OUTPUT:

CONNECTION WITH CLIENT



RETRIEVING INFORMATION

```
Windows PowerShell
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PS C:\Users\admin> cd downloads
PS C:\Users\admin\downloads> python client.py
Hello Sindu...Distributed System Sounds So Intresting...!!

-> █
```

