

Experiment-10

AIM: Write a Program to implement socket programming to demonstrate the exchange of messages from client to server. python code

server.py

```
import socket

server_socket = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
server_socket.bind(('localhost', 12345))
server_socket.listen(1)
client_socket, addr = server_socket.accept()
data = client_socket.recv(1024).decode()
print("Received from client:", data)
client_socket.send("Message received loud and clear!".encode())
client_socket.close()
server_socket.close()
```

client.py

```
import socket

client_socket = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
client_socket.connect(('localhost', 12345))
client_socket.send("Hello Server, this is Client!".encode())
response = client_socket.recv(1024).decode()
print("Received from server:", response)
client_socket.close()
```

Output

```
PS C:\Users\aatif\OneDrive\Desktop\CN File> & C:/Users/aa
.py"
Server is waiting for a connection...
```

```
PS C:\Users\aatif\OneDrive\Desktop\CN File> & C:/Users/aa
op/CN File/client.py"
Received from server: Message received loud and clear!
PS C:\Users\aatif\OneDrive\Desktop\CN File>
```