A.Y. 2022-2023

Subject: Python   **SAP ID: 60004220253 – Devansh Mehta**

Experiment No. 10

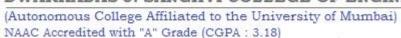**Aim: Implementation of simple socket programming for message exchange between server and client.**

Code:

Server Side:

```
import socket
host = '127.0.0.1'
port = 6000
s = socket.socket()
s.bind((host, port))
s.listen(1)
print("Waiting for connection...")
c, addr = s.accept()
print("Connection Established!")
print("Client Address:", addr)
while True:
    try:
        print()
        data = c.recv(1024)
        d = data.decode('ascii')
        print("Client:", d)
        print()
        x = input("Enter New Message: ")
        y = x.encode('ascii')
        c.send(y)
    except KeyboardInterrupt:
        print()
        print("Connection Terminated!")
        break
```

Client Side:

```
import socket
host = '127.0.0.1'
port = 6000
s = socket.socket()
s.connect((host, port))
print("Connection Established!")
while True:
```

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```
try:
    print()
    x = input("Enter New Message: ")
    y = x.encode('ascii')
    s.send(y)
    print()
    data = s.recv(1024)
    d = data.decode('ascii')
    print('Server:', d)
except KeyboardInterrupt:
    print()
    print("Connection Terminated!")
    s.send("Connection from Client terminated!".encode('ascii'))
    break
```

Output:

Client

```
C:\Users\devan\OneDrive\Desktop\Python Codes>python exp10_client.py
Connection Established!

Enter New Message: hello devansh here

Server: hi server here
```

Server

```
PS C:\Users\devan\OneDrive\Desktop\Python Codes> python -u "c:\Use
Waiting for connection...
Connection Established!
Client Address: ('127.0.0.1', 65382)

Client: hello devansh here

Enter New Message: hi server here
```