CMPE 207 : Network Programming and Applications

Homework 1: Simple TCP Client

Submitted by Team Network Ninjas (Shashank Bheemanapalli, Vidhatri Milind Joshi and Sahiti Shankar Varada)

1. Network Client Application to connect visa tcp (port 23) to:

   2a02:898:17:8000::42

```python
import socket
TCP_IP = '2a02:898:17:8000::42'
TCP_PORT = 23
c = socket.socket(socket.AF_INET6, socket.SOCK_STREAM)
c.connect((TCP_IP, TCP_PORT))
while True:
    data = c.recv(524288)
    stringdata = data.decode('utf-8')
    print(stringdata)
```

2. Network Client Application to connect visa tcp (port 23) to:

94.142.241.111

```
client_1.py ●

C: > Users > sahit > Desktop > PyProject > client_1.py > ...
    1    import socket
    2    TCP_IP = '94.142.241.111'
    3    TCP_PORT = 23
    4    c = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
    5    c.connect((TCP_IP, TCP_PORT))
    6    while True:
    7        data = c.recv(1024)
    8        stringdata = data.decode('utf-8')
    9        print(stringdata)
   10
```

3. Since the server is down, the client is unable to connect to the server.

```
PS C:\Users\sahit> & C:/Python/Python38/python.exe c:/Users/sahit/Desktop/PyProject/client_1.py
Traceback (most recent call last):
  File "c:/Users/sahit/Desktop/PyProject/client_1.py", line 5, in <module>
    c.connect((TCP_IP, TCP_PORT))
TimeoutError: [WinError 10060] A connection attempt failed because the connected party did not properly respond a
fter a period of time, or established connection failed because connected host has failed to respond
```

P.S: The same code was executed a month ago. The server was up and were able to access the file. Unfortunately, the output was not recorded. At the time of making this report the server is down, thus output was not captured.