**Practical No. 9: Web Security with Secure Socket Layer(SSL)**

**Aim: Configure and implement secure communication using SSL protocols, including certificate**

**management and secure session establishment.**

**Code:**

**server.py**

import socket

server\_socket = socket.socket(socket.AF\_INET, socket.SOCK\_STREAM)

LOCALHOST = '127.0.0.1'

port = 9990

server\_socket.bind((LOCALHOST, port))

server\_socket.listen()

print("Server started...")

client\_socket, addr = server\_socket.accept()

print(f"Connection established with {addr}")

while True:

msg\_received = client\_socket.recv(1024)

msg\_received = msg\_received.decode()

print("Client:", msg\_received)

msg\_send = input("Me: ")

client\_socket.send(msg\_send.encode("ascii"))

if msg\_send == "exit":

break

client\_socket.close()

**Client.py**

import socket

s = socket.socket(socket.AF\_INET, socket.SOCK\_STREAM)

LOCALHOST = '127.0.0.1'

port = 9990

s.connect((LOCALHOST, port))

print("New client connected:")

while True:

client\_message = input("Me: ")

s.send(client\_message.encode())

msg\_received = s.recv(1024)

msg\_received = msg\_received.decode()

print("Server:", msg\_received)

if msg\_received == 'exit':

break

s.close()