NAME: S S JAYAKAR RAJU

REGNO: 21BCE5622

SUBJECT: Cryptography and network security

FACULTY: Balasaraswathi V R

SLOT: L49+L50

EXP NO: 8

Secure Socket Layer Programming

SFRVFR CODF:

```
import javax.net.ssl.SSLServerSocketFactory;
import javax.net.ssl.SSLServerSocket;
import javax.net.ssl.SSLSocket;
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.io.PrintWriter;
public class SSL_server {
    public static void main(String[] args) {
        try {
            System.setProperty("javax.net.ssl.keyStore", "keystore.jks");
            System.setProperty("javax.net.ssl.keyStorePassword", "changeit");
            SSLServerSocketFactory ssf = (SSLServerSocketFactory)
SSLServerSocketFactory.getDefault();
            SSLServerSocket serverSocket = (SSLServerSocket)
ssf.createServerSocket(9999);
            System.out.println("SSL ServerSocket started");
            SSLSocket sslSocket = (SSLSocket) serverSocket.accept();
            System.out.println("Server socket accepted");
            PrintWriter out = new PrintWriter(sslSocket.getOutputStream(), true);
            BufferedReader in = new BufferedReader(new
InputStreamReader(sslSocket.getInputStream()));
            String line;
            while ((line = in.readLine()) != null) {
                System.out.println("Received: " + line);
                out.println("Echo: " + line);
        } catch (Exception e) {
            e.printStackTrace();
```

Client Code:

```
import javax.net.ssl.SSLSocketFactory;
import javax.net.ssl.SSLSocket;
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.io.PrintWriter;
public class SSLClient {
    public static void main(String[] args) {
       try {
            System.setProperty("javax.net.ssl.trustStore", "truststore.jks");
            System.setProperty("javax.net.ssl.trustStorePassword", "changeit");
            SSLSocketFactory ssf = (SSLSocketFactory)
SSLSocketFactory.getDefault();
            SSLSocket sslSocket = (SSLSocket) ssf.createSocket("localhost",
9999);
            PrintWriter out = new PrintWriter(sslSocket.getOutputStream(), true);
            BufferedReader in = new BufferedReader(new
InputStreamReader(sslSocket.getInputStream()));
            out.println("Hello SSL Server");
            String line;
            while ((line = in.readLine()) != null) {
                System.out.println("Received: " + line);
        } catch (Exception e) {
            e.printStackTrace();
```

OUTPUTS:

```
PS EXCHANGE (NITHING ANCHORD) TO THE STATE OF THE PROPERTY OF SECTION AND ANCHORD STATE OF THE SECTION OF THE S
```

```
| Include | Section | Company | Comp
```

```
| The content of the
```





