Creating an SSL Client Socket

```
import java.io.InputStream;
import java.io.OutputStream;
import java.net.Socket;
/* j  ava 2  s. c  om*/
import javax.net.SocketFactory;
import javax.net.ssl.SSLSocketFactory;

public class Main {
  public static void main(String[] argv) throws Exception {
    int port = 443;
    String hostname = "hostname";
    SocketFactory socketFactory = SSLSocketFactory.getDefault();
    Socket socket = socketFactory.createSocket(hostname, port);


    InputStream in = socket.getInputStream();
    OutputStream out = socket.getOutputStream();

    // Read from in and write to out...

    in.close();
    out.close();
  }
}
```

SSL HTTP client

```
import java.io.BufferedReader;
import java.io.InputStream;
import java.io.InputStreamReader;
import java.io.OutputStream;
import java.io.PrintWriter;
import java.net.Socket;
// j  ava 2  s.com
import javax.net.SocketFactory;
import javax.net.ssl.SSLSocketFactory;

public class Main {
  public static void main(String args[]) throws Exception {
    SocketFactory factory = SSLSocketFactory.getDefault();
    Socket socket = factory.createSocket("127.0.0.1", 8080);

    OutputStream outputStream = socket.getOutputStream();
    PrintWriter out = new PrintWriter(outputStream);
    out.print("GET / HTTP/1.0\r\n\r\n");
    out.flush();
```

```
    InputStream inputStream = socket.getInputStream();
    InputStreamReader inputStreamReader = new InputStreamReader(inputStream);
    BufferedReader in = new BufferedReader(inputStreamReader);

    String line;
    while ((line = in.readLine()) != null) {
      System.out.println(line);
    }
    out.close();
    in.close();
    socket.close();

  }
}
```

Creating an SSL Server Socket

```
import java.io.InputStream;
import java.io.OutputStream;
import java.net.ServerSocket;
import java.net.Socket;
/*j  av a 2 s.com*/
import javax.net.ServerSocketFactory;
import javax.net.ssl.SSLServerSocketFactory;

public class Main {
  public static void main(String[] argv) throws Exception {
    int port = 443;
    ServerSocketFactory ssocketFactory = SSLServerSocketFactory.getDefault();
    ServerSocket ssocket = ssocketFactory.createServerSocket(port);

    Socket socket = ssocket.accept();

    InputStream in = socket.getInputStream();
    OutputStream out = socket.getOutputStream();

    // Read from in and write to out...

    in.close();
    out.close();
  }
}
```

Get Supported Cipher Suites

```
import javax.net.ssl.SSLServerSocket;
import javax.net.ssl.SSLServerSocketFactory;
import javax.net.ssl.SSLSocket;
```

```
// j av a 2 s . c om
public class Main {
  public static void main(String[] argv) throws Exception {
    SSLServerSocketFactory factory =
          (SSLServerSocketFactory) SSLServerSocketFactory.getDefault();
    SSLServerSocket serverSocket =
              (SSLServerSocket) factory.createServerSocket(8080);
    String[] suites = serverSocket.getSupportedCipherSuites();
    for (int i = 0; i < suites.length; i++) {
      System.out.println(suites[i]);
    }
    serverSocket.setEnabledCipherSuites(suites);
    String[] protocols = serverSocket.getSupportedProtocols();
    for (int i = 0; i < protocols.length; i++) {
      System.out.println(protocols[i]);
    }
    SSLSocket socket = (SSLSocket) serverSocket.accept();
    socket.startHandshake();
    System.out.println(socket.getRemoteSocketAddress());
  }
}
```