DNS Client

```
import java.net.*;
public class CustomDNSClient {
  public static void main(String[] args) throws Exception {
    DatagramSocket socket = new DatagramSocket();
    String queryDomain = "example.com"; // Replace with your CO4 hostname
    byte[] queryData = createDNSQuery(queryDomain);
    InetAddress dnsServerAddress = InetAddress.getByName("DNS_SERVER_IP"); //
Replace with the DNS server's IP
    int dnsServerPort = 53; // DNS port
    DatagramPacket sendPacket = new DatagramPacket(queryData, queryData.length,
dnsServerAddress, dnsServerPort);
    socket.send(sendPacket);
    byte[] responseData = new byte[1024];
    DatagramPacket receivePacket = new DatagramPacket(responseData,
responseData.length);
    socket.receive(receivePacket);
    // Process and parse the DNS response here
    // Extract the resolved IP address from the response
    socket.close();
  }
  private static byte[] createDNSQuery(String domain) {
    // Create a DNS query byte array following the DNS protocol
    // Return the byte array
  }
}
```