CMPE-272 Enterprise Software Platform

Homework:07 Security

Team Name: Techie-Tribe

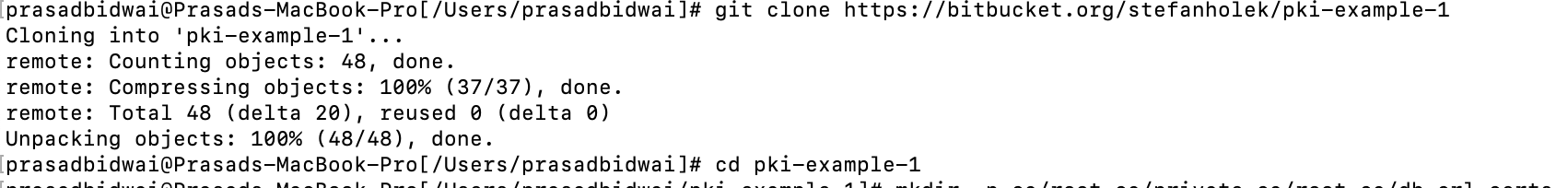
Members - Bhavya Tetali, Pranjali Kotgire, Priti Sharma, Supriya Meduri

Git repo:

**Assignment:**  **Design and build a PKI infrastructure that includes Root CA, Signing CA, and TLS Certificate and use TLS certificate to install a web server.**

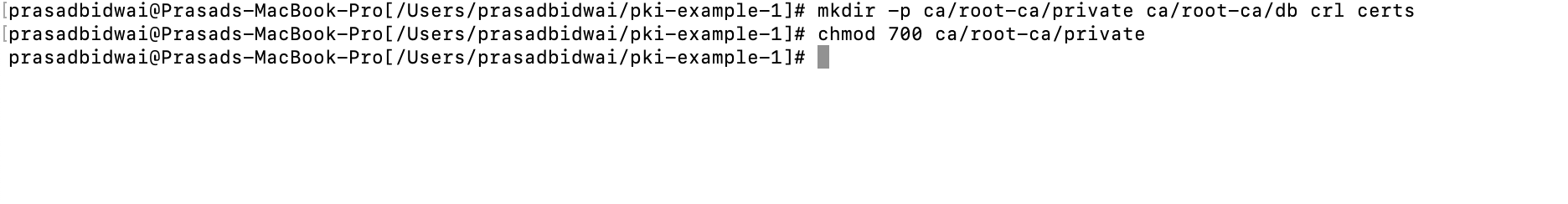
Steps:

1. To begin, fetch this Simple PKI example files and change into the another directory

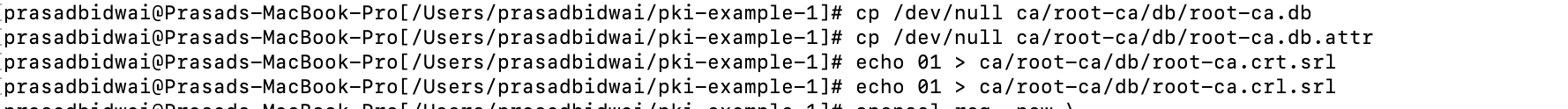


1. Create Root CA

2.1 create Directories:



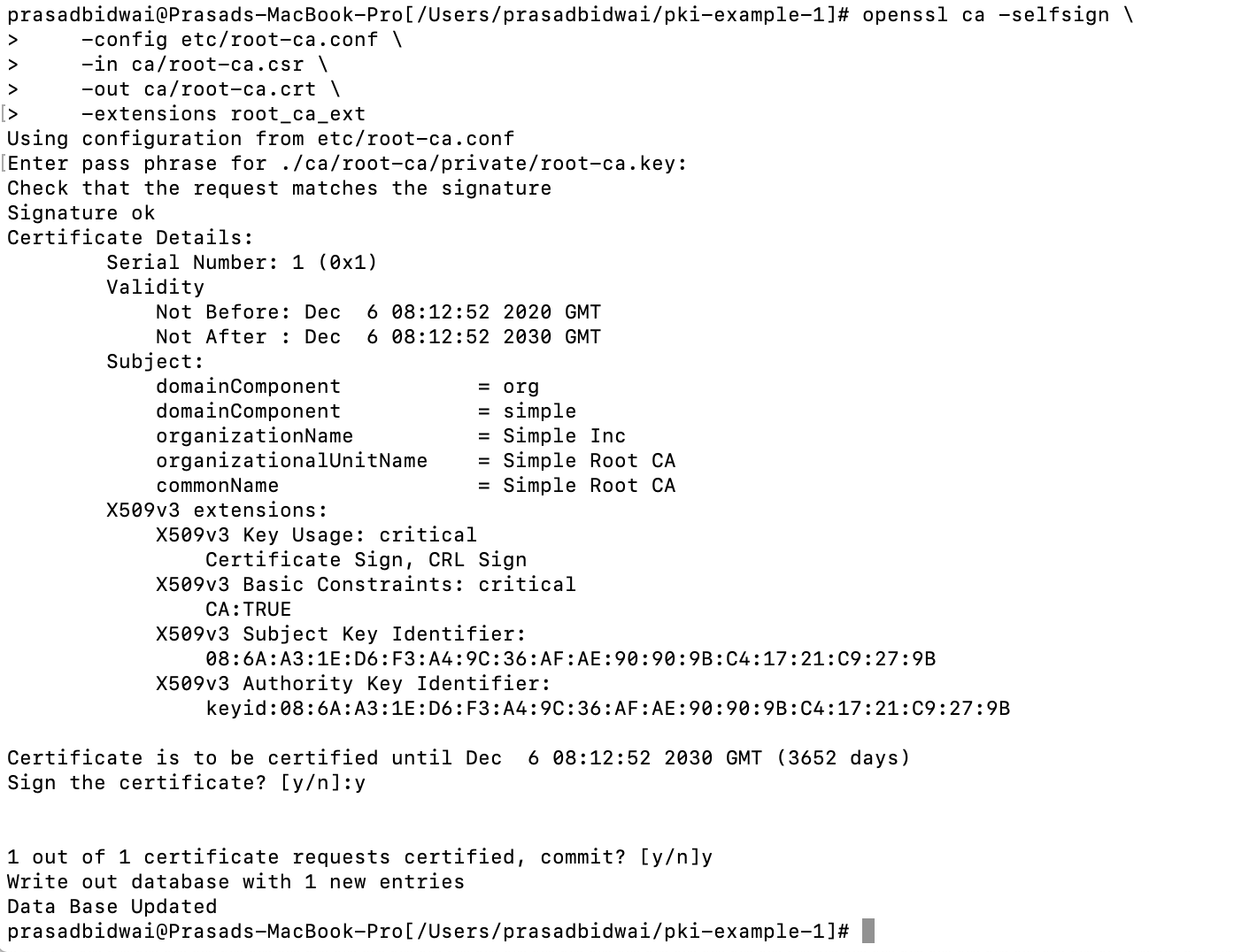
2.2 Create Database:



2.3 Create CA request:

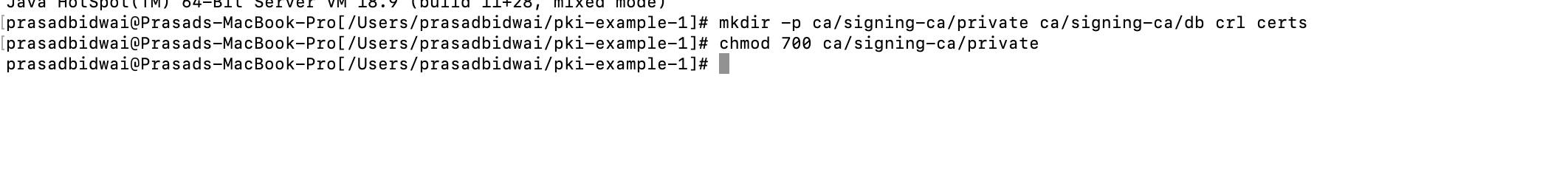


2.4 Create CA certificate:

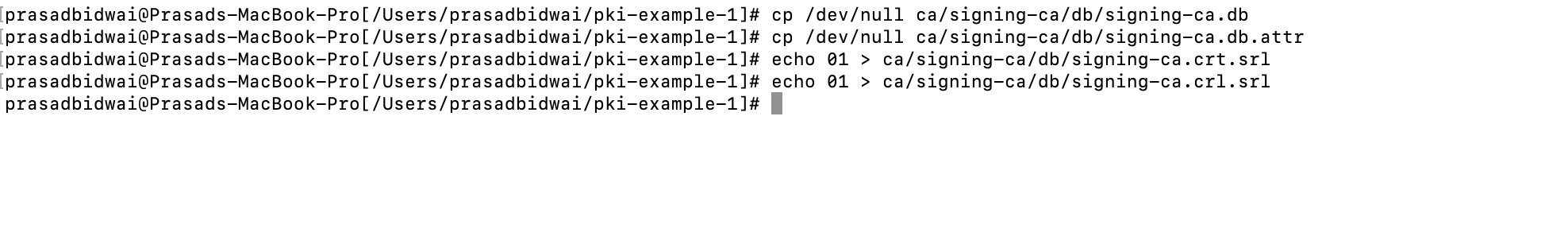


1. Create Signing CA:

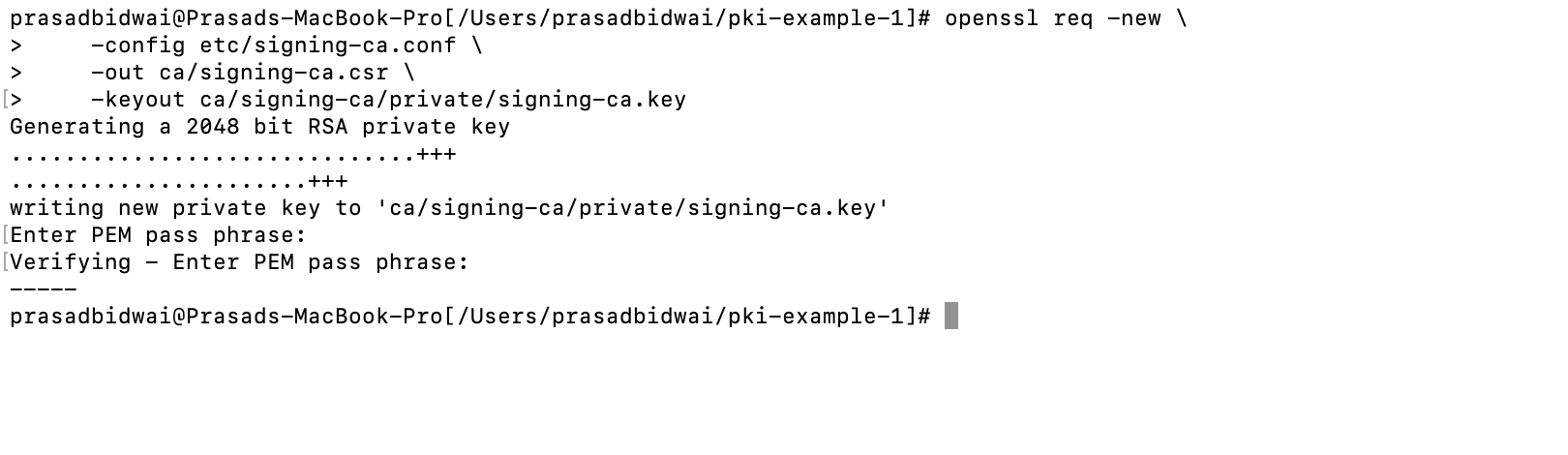
3.1 Create Directories:



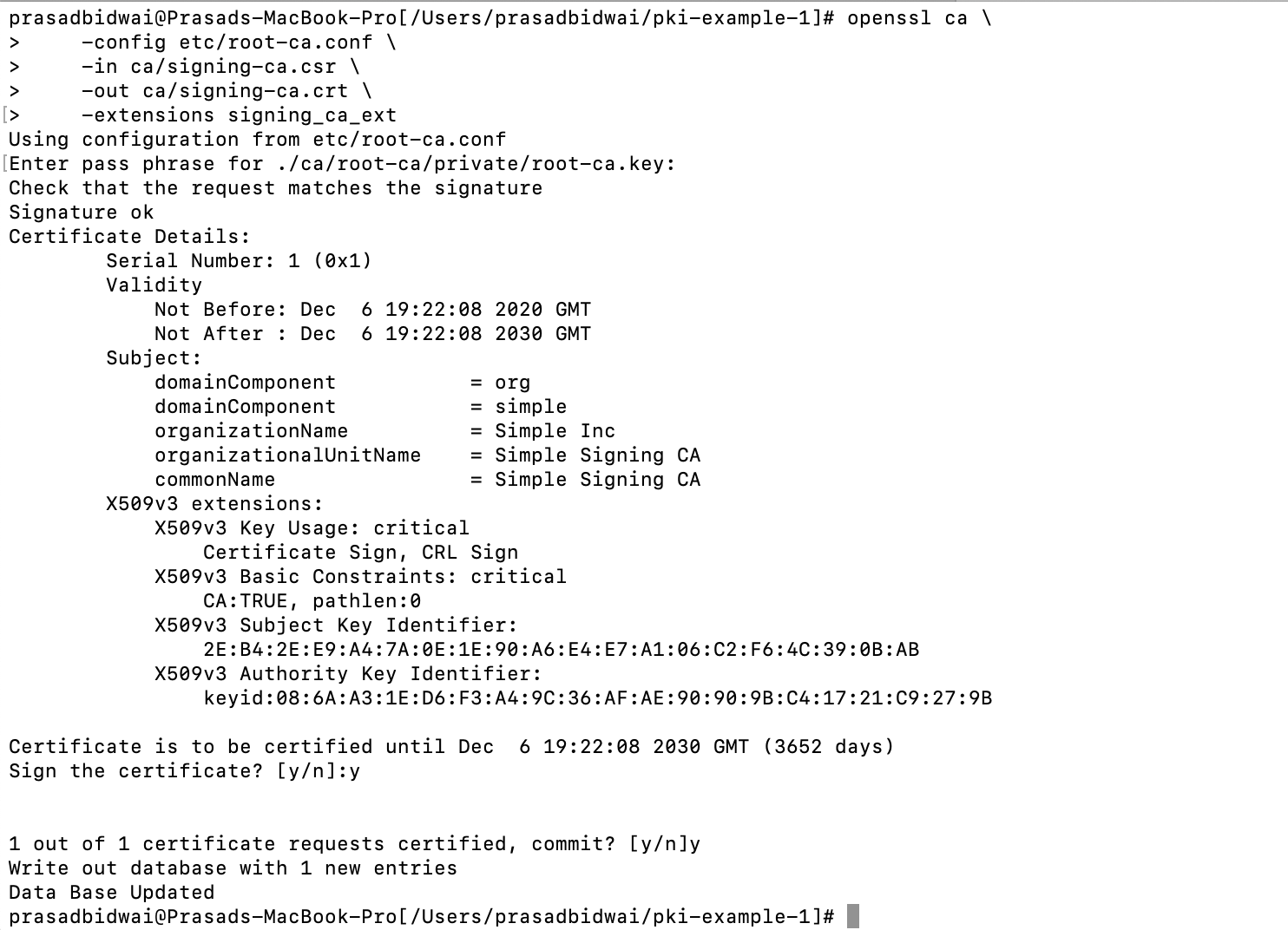
3.2 Create Database:



3.3 Create CA request:

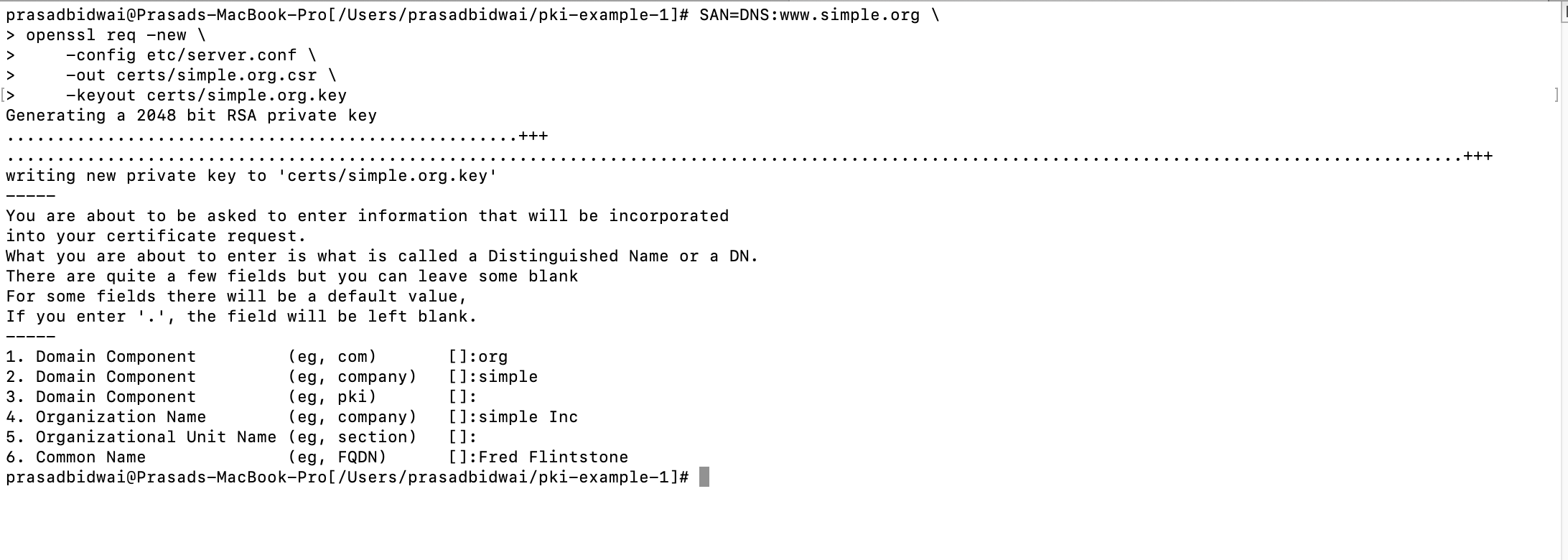


3.4 Create CA certificate:

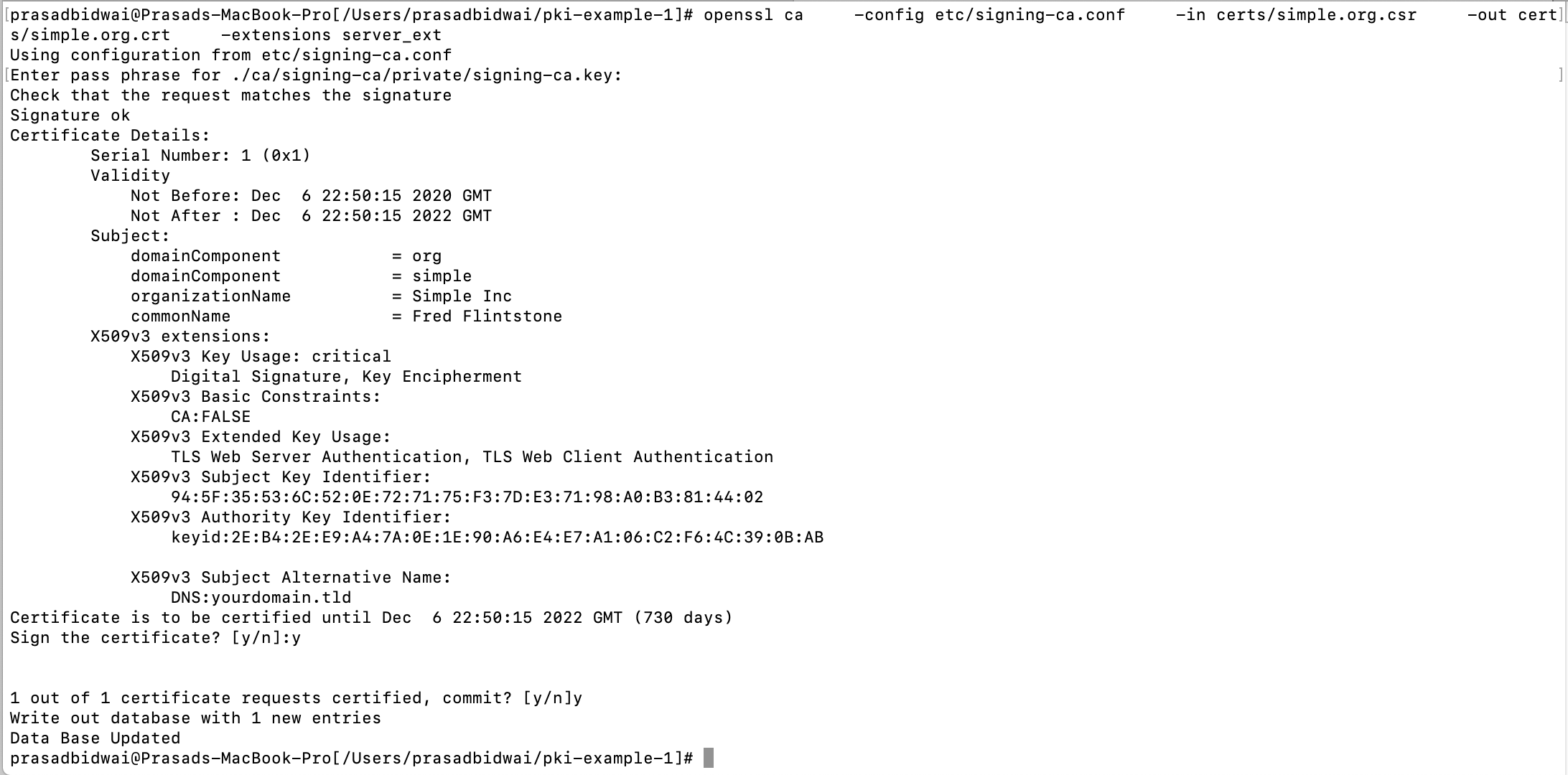


1. Operate Signing CA

4.1 Create TLS server request:

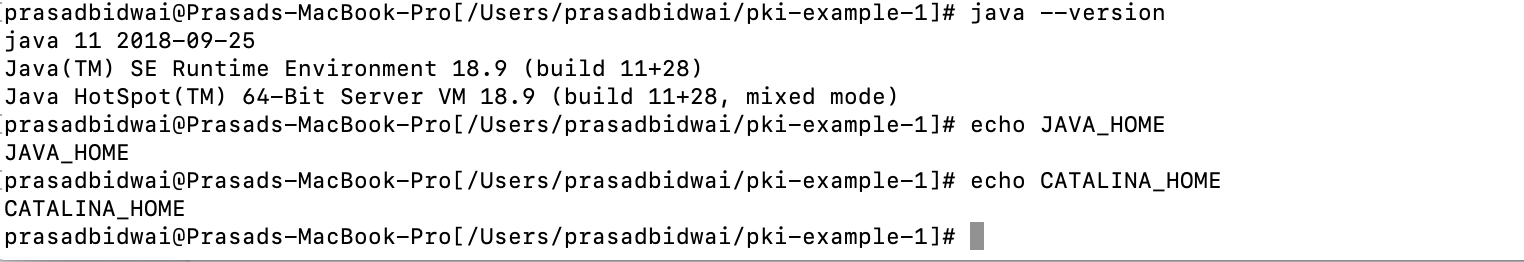


4.2 Create TLS server certificate:



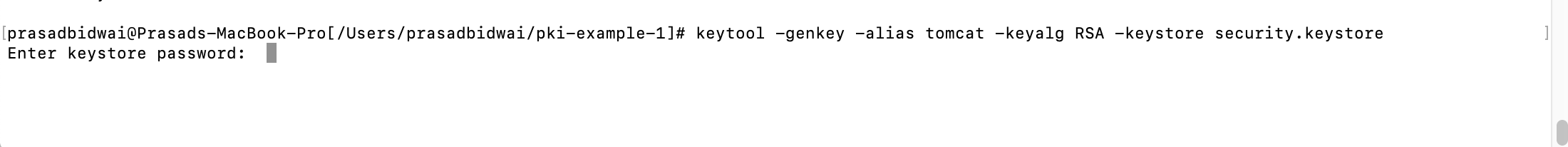
Section 2:

1. Download and install Tomcat:
2. Download and install java:

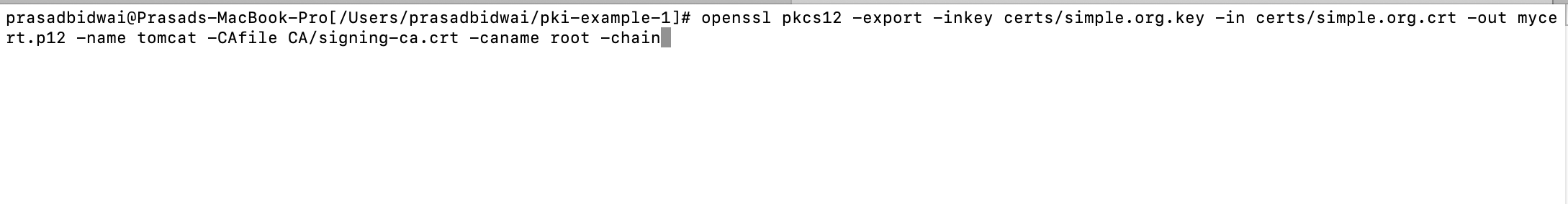


1. Prepare certificate keystore and import the certificate

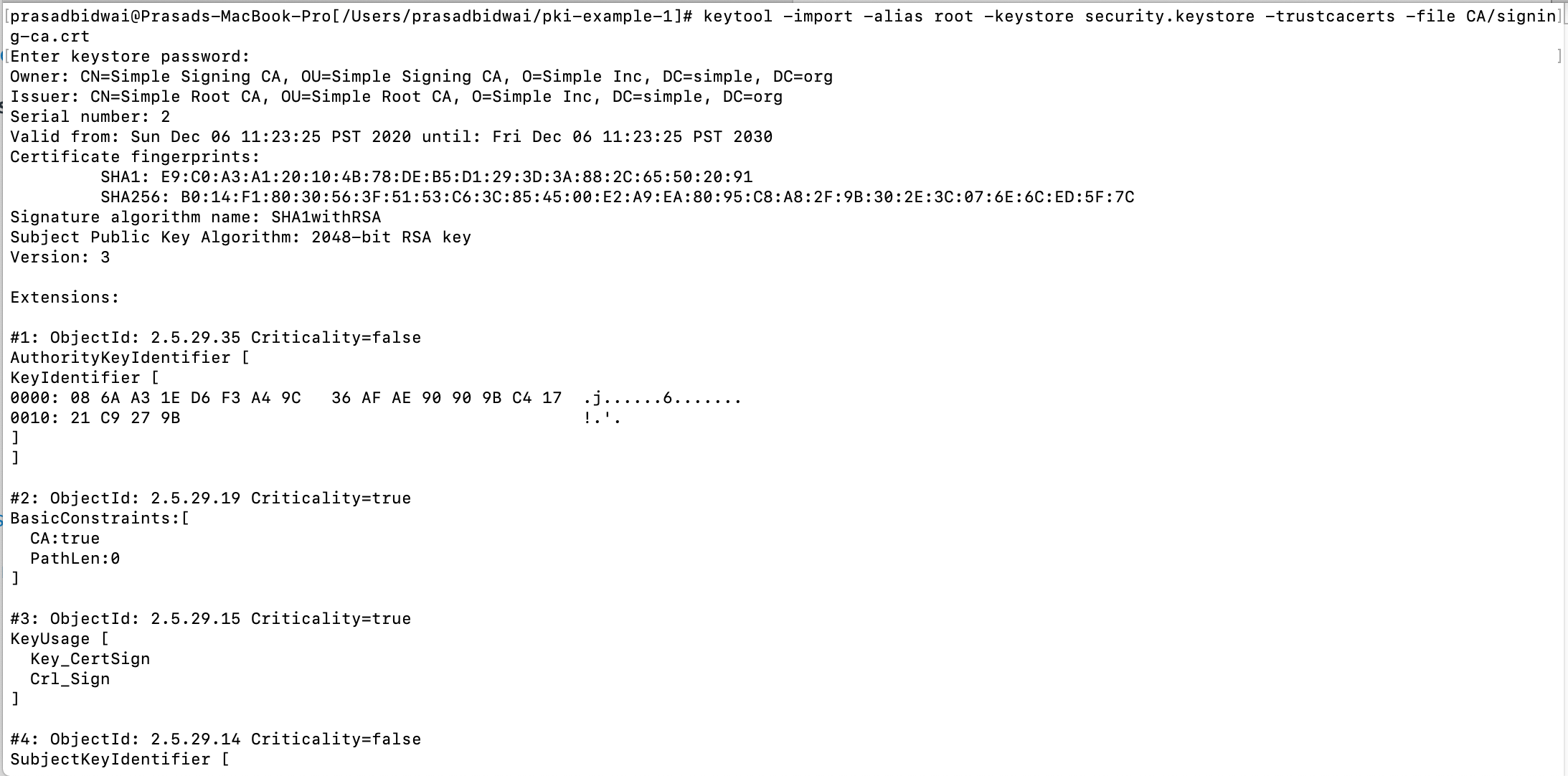
1] Creating a keystore file:

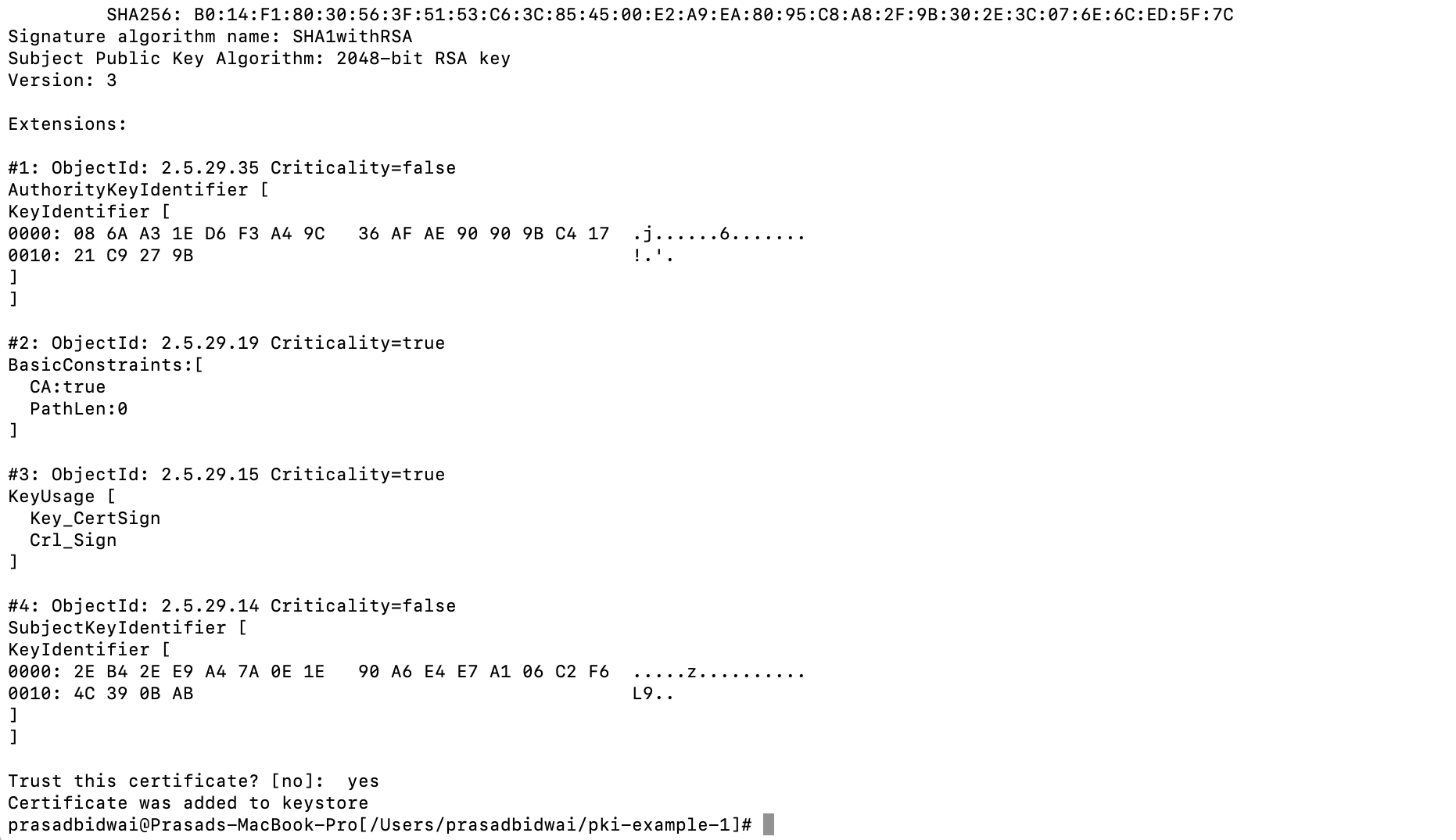


2] Importing existing certificate to PKCS 12 keystore using OpenSSL:

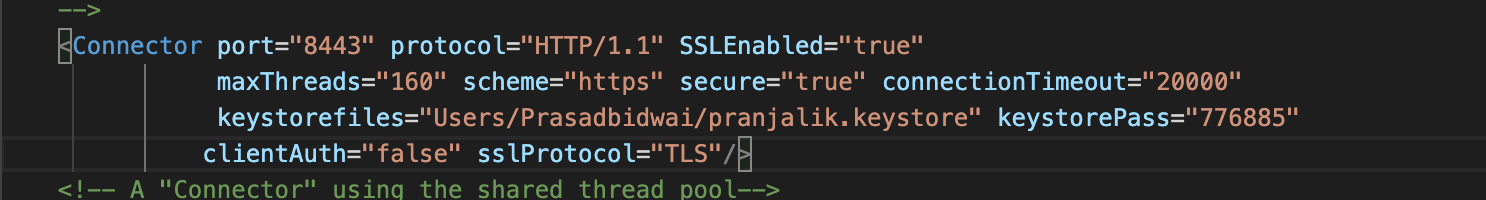


3] Import the chain Certificate:





4] Now edit the configuration file of tomcat: (/Users/prasadbidwai/tomcat/bin/server.yml)



5] Start Tomcat: (/Users/prasadbidwai/tomcat/bin/startup.sh)

