**Create 3 self-signed certificates :**

keytool -alias root -dname "cn=RootCA, ou=Root\_CertificateAuthority, o=CertificateAuthority, c=IN" -genkeypair -storepass password -keyalg RSA -keystore c:/keyStore.keystore

keytool -alias intermediate -dname "cn=IntermediateCA, ou=Intermediate\_CertificateAuthority, o=CertificateAuthority, c=IN" -genkeypair -storepass password -keyalg RSA -keystore c:/keyStore.keystore

keytool -alias server -dname "cn=OAuth2Server, ou=Java, o=Oracle, c=IN" -genkeypair -storepass password -keyalg RSA -keystore c:/OAuth2Server.jks -validity 500

**Create a certificate request (CSR) for CA\_Intermediate**

keytool -alias intermediate -certreq -storepass password -keystore c:/keyStore.keystore -keyalg RSA | keytool -alias root -gencert -ext san=dns:intermediate -storepass password -keystore c:/keyStore.keystore -keyalg RSA | keytool -alias intermediate -importcert -storepass password -keyalg RSA -keystore c:/keyStore.keystore

**Export the root certificate of CA\_Root and import it to identity keystore**

keytool -export -alias root -storepass password -keystore c:/keyStore.keystore | keytool -import -alias root -keystore c:/OAuth2Server.jks -storepass password -noprompt –trustcacerts

**Create a certificate request (CSR) for your server certificate. Sign it with CA\_Intermediate using the gencert option.**

keytool -alias server -certreq -storepass password -keyalg RSA -keystore c:/OAuth2server.jks | keytool -alias intermediate -gencert -ext san=dns:OAuth2Server -storepass password -keystore c:/keyStore.keystore -keyalg RSA | keytool -alias server -importcert -storepass password -keyalg RSA -keystore c:/OAuth2Server.jks -noprompt –trustcacerts -validity 500

**Create a trust keystore with root and intermediate certificate:**

keytool -export -alias intermediate -storepass password -keystore c:/keyStore.keystore | keytool -import -alias intermediate -keystore c:/trust.jks -storepass password -trustcacerts -noprompt

keytool -export -alias root -storepass password -keystore c:/keyStore.keystore | keytool -import -alias root -keystore c:/trust.jks -storepass password -trustcacerts -noprompt

**List the identity keystore :**

keytool -list -v -keystore identity.jks -storepass password

**Delete the root certificate of CA\_Root from identity keystore. (We need it only for chaining)**

keytool -delete -alias root -keystore c:/OAuth2Server.jks -storepass password