Lab Homework 8E

You will receive a signed email from the TA with his digital certificate. Import this certificate in your contacts list. (Use help feature on your email software for details. See instructions for Outlook and Gmail). Now send an encrypted signed email to TA with the subject line of "CSE473 Encrypted Signed Mail Homework 8E"

You will need a certificate for yourself too.

Lab Homework 8E (Cont)

Getting your Certificate:

❑ Use **Internet Explorer** to request and collect a free email certificate from:

http://www.comodo.com/home/email-security/free-email-certificate.php

❑ After you have collected the certificate, in Internet Explorer go to
Tools → Internet Options → Contents → Certificates → Personal

❑ Select your certificate and export it to a file.
Select "Yes – Export the private key" click next
Select "Include all certificates in the certification path"
Select "Enable strong protection"
Do not select "Delete the private key if the export is successful"
Save it with a password of your choice.

❑ Import this certificate in Outlook as follows:
Tools → Options → Security → Import/Export

❑ Browse to your certificate file and add it.

Lab Homework 8E (Cont)

❑ If you use <u>Firefox</u>, use the following procedure to request and collect a free email certificate from:

http://www.comodo.com/home/email-security/free-email-certificate.php

❑ After you have collected the certificate, in Firefox go to
Tools → Options → Advanced → Encryption → View Certificates
→ Your Certificates

❑ Select your certificate and backup to a file.
Save it with a password of your choice.

❑ Import this certificate in Outlook as follows:
Tools → Options → Security → Import/Export

❑ Browse to your certificate file and add it.
Note: You have to use the same browser to collect the certificate from Comodo that you used to request the certificate.

Lab Homework 8E (Cont)

Importing Other's Certificates in Outlook:

❑ In Outlook, open the signed message received from TA. In the message window, right click on the name in the "From field" and select "save as outlook contact"

❑ This will open a new contact window. In that window, click on the "certificates" tab.

❑ You will see the certificate listed there.

❑ Save this contact in your contacts list.

❑ When you reply or send email to this contact, you can enable the security options for encryption and signatures by:
View $\rightarrow$ Options $\rightarrow$ Security Options
Select Encrypt Message or Add Digital Signature or both
Select Security Settings: <Automatic>

Lab Homework 8E (Cont)

Gmail Instructions:

❑ The certificate will show up as an attachment name smime.p7s

❑ Download and save this attachment on your computer.

❑ Transfer this file to the computer where you have an outlook email.

❑ Manually create a new contact entry in outlook with proper name and email address.

❑ Open this contact entry. Go to certificate panel and import.
Select all files *.* and select the file smime.p7s

❑ Save and close the entry.

❑ To send an email with your Gmail address in the from field, you will need to create a new email account in Outlook with the corresponding Gmail address in the from field. Outlook allows email security. Gmail does not.

Lab Homework 8E (Cont)

Sending Encrypted and Signed Messages w Outlook:

❑ You can reply to the TA's email with a signed encrypted message. Content of the reply is not important.

❑ Before sending the message, on the message window, Select View → Options → Security Settings
Select encryption and signature
Now send the message.

Lab Homework 8E (Cont)

Thunderbird:

❑ To import your certificate into Thunderbird:
Tools -> Options -> Advanced -> Certificates -> View Certificates -> Your Certificates -> Import

❑ Then navigate to where you saved the certificate and select it. Enter the password you encrypted the certificate with.

❑ Now go to Tools->Account Settings->Security

❑ Under "Digital Signing", click select to choose the certificate you just imported.

❑ Click "Yes" to automatically use the same certificate for encryption/decryption.

❑ Thunderbird keeps track of other people's certificates automatically. "Add to address book" step is not necessary for Thunderbird.

❑ To send a message: After opening a new message, go to Options-> Encrypt this Message and Options->Digitally Sign this message, as desired.