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1. Write a code to generate the public and private keys, using RSA, for two users **A** and **B**. Store these keys as ASCII in the files **A.pub**, **A.pri**, **B.pub** and **B.pri**. [50]
 2. **A** wants to digitally sign a message and securely send it to **B**. Write a code that will sign and encrypt the ASCII text in file **message.txt**. Store the signed and encrypted text as ASCII in the file **secret.txt**. *Note: You are required to use the keys generated in the previous question.* [25]
 3. Write a code that will decrypt the message in **secret.txt** and verify if the message was indeed sent by **A**. If the verification is successful, your code should print the original message from **A**. Else, your code should print the text **Message not verified**. *Note: You are required to use the keys generated in the first question.* [25]