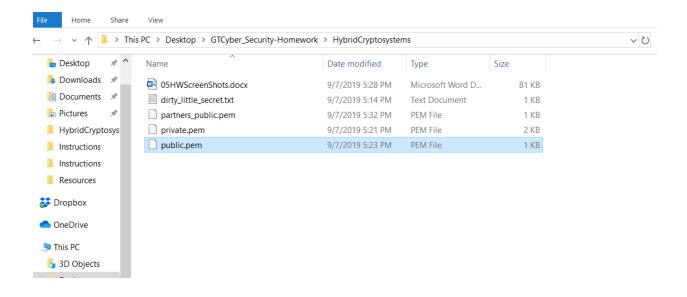
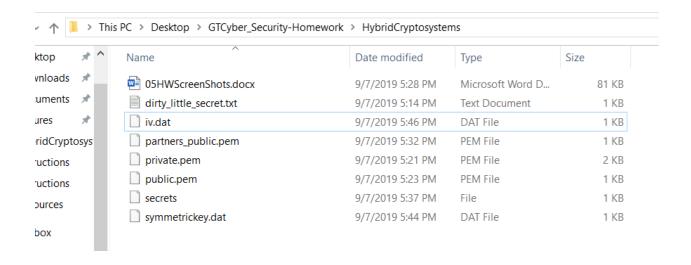
Make a Confession/Generate and RSA Keypair



Generate an AES Key





```
andre@LAPTOP-HJF2MB3E MINGW64 ~/Desktop/GTCyber_Security-Homework/HybridCryptosystems (master)
$ openssl pkeyutl -encrypt -in symmetrickey.dat -inkey partners_public.pem -pubin -out symmetrickey.enc
andre@LAPTOP-HJF2MB3E MINGW64 ~/Desktop/GTCyber_Security-Homework/HybridCryptosystems (master)
$ cat symmetrickey.enc
f"I ) < [1! V 威(W l * 1 TO 1 k j * 1 T
```

^	Name	Date modified	Type	Size	
k access	05HWScreenShots.docx	9/7/2019 5:47 PM	Microsoft Word D	211 KB	
ktop 🖈	dirty_little_secret.enc	9/7/2019 8:24 PM	Wireshark capture	1 KB	
vnloads 🖈	dirty_little_secret.txt	9/7/2019 5:14 PM	Text Document	1 KB	
ruments 🖈	iv.dat	9/7/2019 6:16 PM	DAT File	1 KB	
ures 🖈	partners_public.pem	9/7/2019 5:32 PM	PEM File	1 KB	
Giphy_API	private.pem	9/7/2019 5:21 PM	PEM File	2 KB	
oridCryptosys	public.pem	9/7/2019 5:23 PM	PEM File	1 KB	
uctions	secrets	9/7/2019 5:37 PM	File	1 KB	
uctions	symmetrickey.dat	9/7/2019 5:44 PM	DAT File	1 KB	
	iii symmetrickey.enc	9/7/2019 8:30 PM	Wireshark capture	1 KB	
box	partners_iv.dat	9/9/2019 8:49 AM	DAT File	1 KB	
Drive	partners_symmetrickey.enc	9/9/2019 8:49 AM	Wireshark capture	1 KB	
	partners_dirty_little_secret.enc	9/9/2019 8:49 AM	Wireshark capture	1 KB	

```
airty_little_secret.txt
                                                                                           partners_public.pem
                                                                                                                                     secrets
 '~WRL0005.tmp'
                                       iv.dat
                                                                                           partners_symmetrickey.enc symmetrickey.dat
 05HWScreenShots.docx partners_dirty_little_secret.enc
                                                                                           private.pem
                                                                                                                                    symmetrickey.enc
 dirty_little_secret.enc partners_iv.dat
                                                                                           public.pem
andre@LAPTOP-HJF2MB3E MINGW64 ~/Desktop/GTCyber_Security-Homework/HybridCryptosystems (master)
$ openssl pkeyutl -decrypt -in partners_symmetrickey.enc -inkey private.pem -out partners_symmetric_key.pem
Enter pass phrase for private.pem:
andre@LAPTOP-HJF2MB3E MINGW64 ~/Desktop/GTCyber_Security-Homework/HybridCryptosystems (master)
$ openssl enc -aes-256-cbc -d -nosalt -in partners_dirty_little_secret.enc -base64 -K 5E884898DA28047151D0E56F8
603D0D6AABBDD62A11EF721D1542D8 -iv 3B02902846FFD32E92FF168B3F5D16B0
Taylor Swift ROCKS!
andre@LAPTOP-HJF2MB3E MINGW64 ~/Desktop/GTCyber_Security-Homework/HybridCryptosystems (master)
$
```