

OLD DOMINION UNIVERSITY  
CYSE 301 CYBERSECURITY TECHNIQUES AND OPERATIONS  
ASSIGNMENT #6 – HIDE YOUR SECRET

Celeste Meraz-Luna  
01302562

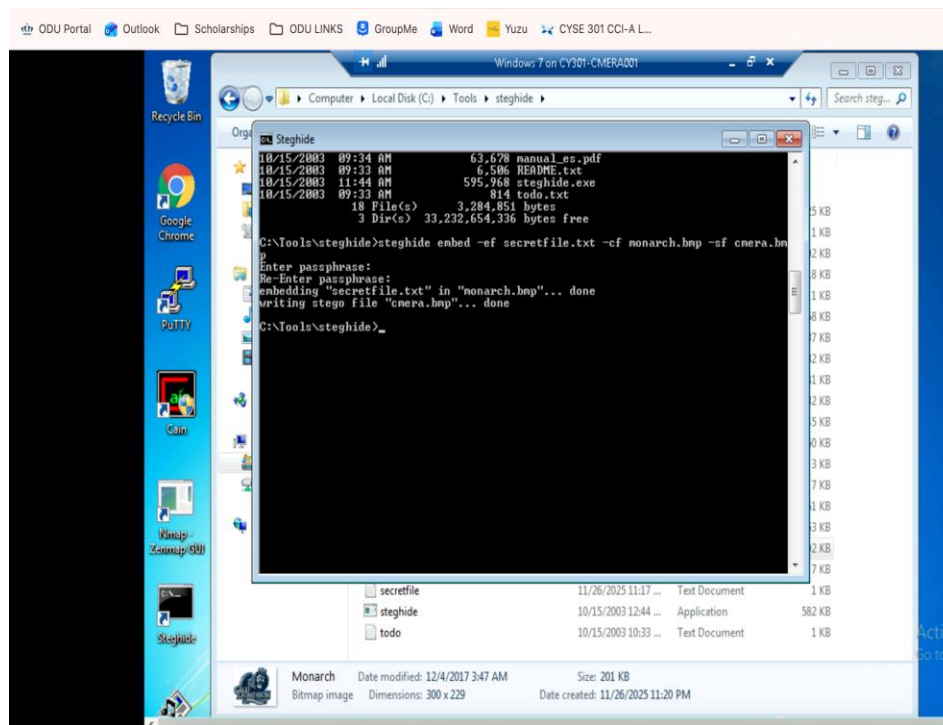
## Task A

Explain what steganography is and how it differs from cryptography?

The origin of the word steganography is secret writing. In cryptography, the data is encrypted and unreadable, while in steganography there is no evidence of its existence.

## Task B

I created the secretfile.txt containing the answers to the two questions. I hid the text file into monarch.bmp and used cmera.bmp as the stego file. My password was myuin.

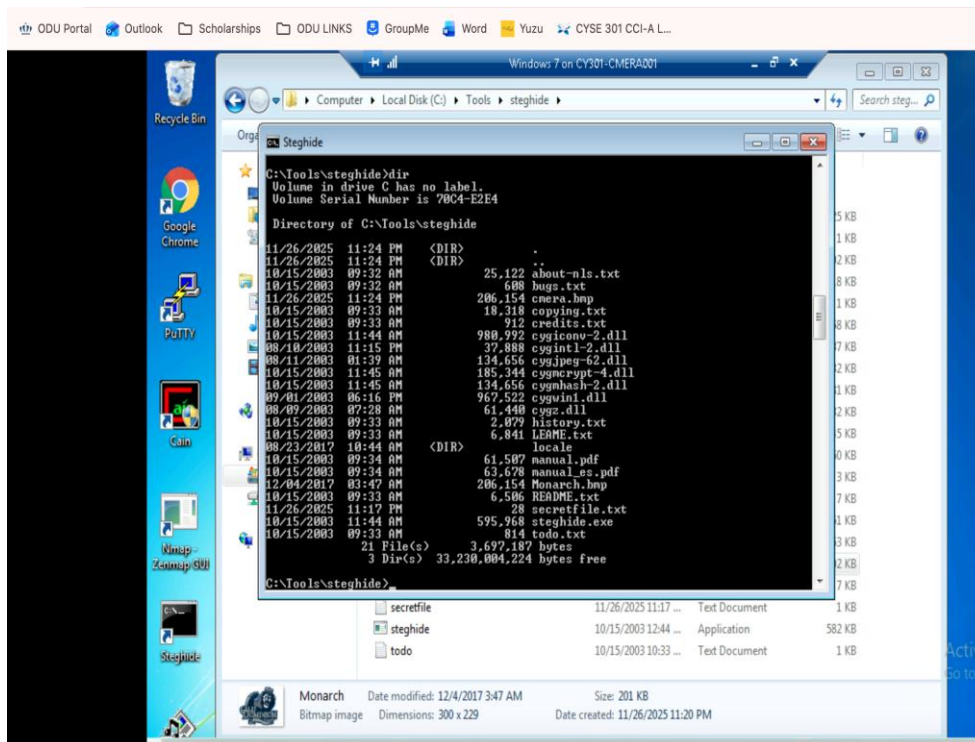


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ODU Portal Outlook Scholarships ODU LINKS GroupMe Word Yuzu CYSE 301 CCI-A L...
Windows 7 on CV301-CMERA001
Computer > Local Disk (C:) > Tools > steghide >
Orig
10/15/2003 09:34 AM 63,678 manual_es.pdf
10/15/2003 09:33 AM 6,506 README.txt
10/15/2003 11:44 AM 595,968 steghide.exe
10/15/2003 09:33 AM 814 todo.txt
18 File(s) 3,284,851 bytes
3 Dir(s) 33,232,654,336 bytes free
C:\Tools\steghide>steghide embed -ef secretfile.txt -cf monarch.bmp -sf cmera.bmp
Enter passphrase:
Re-Enter passphrase:
embedding "secretfile.txt" in "monarch.bmp"... done
writing stego file "cmera.bmp"... done
C:\Tools\steghide>_

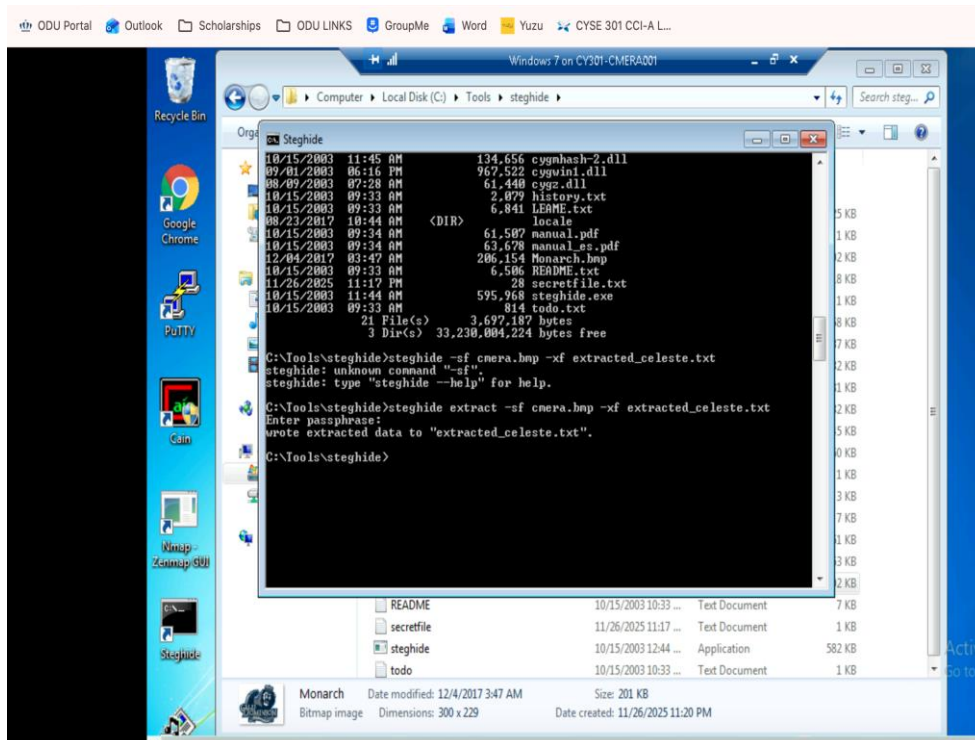
secretfile 11/26/2025 11:17 ... Text Document 1 KB
steghide 10/15/2003 12:44 ... Application 582 KB
todo 10/15/2003 10:33 ... Text Document 1 KB

Monarch Date modified: 12/4/2017 3:47 AM Size: 201 KB
Bitmap image Dimensions: 300 x 229 Date created: 11/26/2025 11:20 PM
```

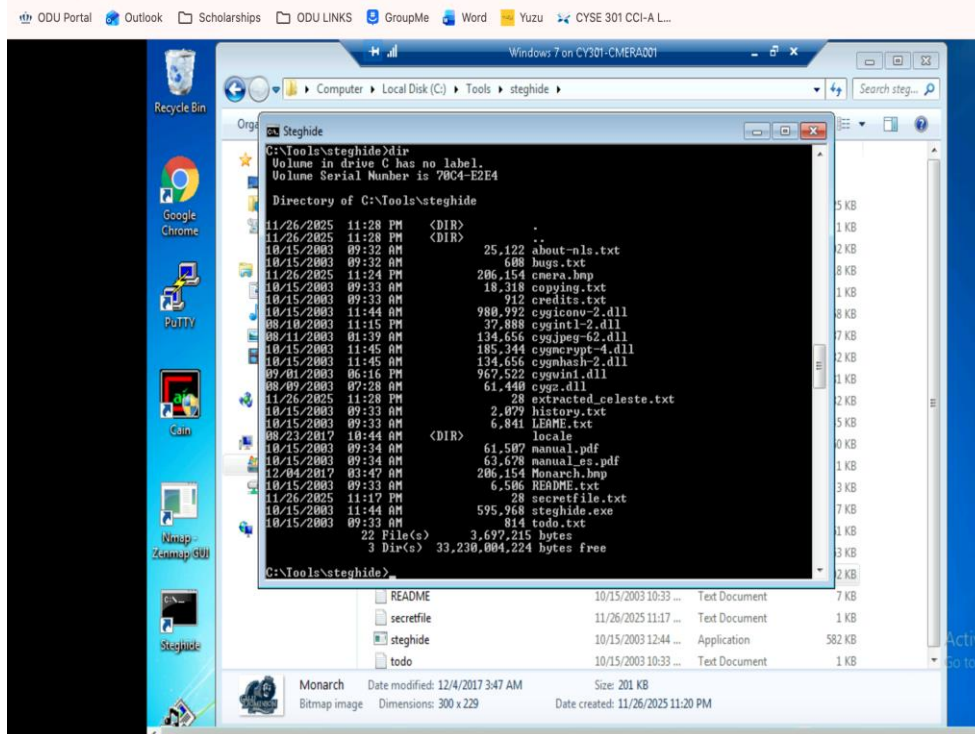
I used the “dir” command to confirm that the file cmera.bmp was created.



I used the “steghide extract” command to extract the secret message and save it in the file “extracted\_celeste.txt”



I used the “dir” command to confirm that the extracted\_celeste.txt file was created.



I used the “type” command to display the contents of the extracted file.

