

COMP307 Assignment 1

Questions based on Chapter 1 of HackingSecretsCiphersWithPython

Instructions

Work in teams of maximum two students. Read the sample chapter.

Marks

This assignment is marked out of 10

Encryption / Decryption

1. Pick a secret message with minimum 5 words between 10 and 20 characters long (don't show it here).
2. Use the link: <http://inventwithpython.com/cipherwheel/> to encrypt the message (rotate the outer wheel and note the number where the outer letter A (with a dot) lands. Write down the encrypted message using that fixed position of the wheel going from outer circle to inner circle.
3. Pick a "Decryption Partner" (for him/her you will be his/her "Encryption Partner").
4. Repeat the above exercise with Caesar cipher with your partner. (5)
5. Research and list at least four good Software security best practices and their related threats. Each practice must be accompanied by a short (one or two sentences) explanation.

Hint (<https://www.synopsys.com/blogs/software-security/software-security/>) (5)