

Section 1 Lecture 5 – Caesar cipher - Exercises

Q1) Encrypt the following messages using a Caesar cipher with the given shifts:

- (i) “HELLO AND WELCOME” (shift 3)
- (ii) “CODES WERE USED A LONG TIME AGO” (shift 4)
- (iii) “ARE WE NEARLY THERE YET” (shift 25)

Q2) Decrypt the following messages created by a Caesar cipher (try various shifts until you find a sensible phrase):

- (i) “WKL LV QRW YHUB KDUG”
- (ii) “GLEQTMSRW SJ IYVSTI XAMGI”
- (iii) “WUH SIO NYFF QBUN CN CM SYN”

Q3) Applying a Caesar cipher to the English word “DOLLS” can create another English word. What is it? Can you create any more examples like this?

Q4) Optional - you need some programming skills.

Write a program that allows you to type in a phrase and a shift then encrypts the phrase by that shift, and also allows you to type in a coded phrase and prints out all the possible decryptions of that phrase.