IT\_120\_Module 5\_Lab\_4

Exercise 1: Caesar Cipher

1. Encrypt the message MATH with the Caesar cipher with 4 as the key.

**QEXL**   
I went to <https://cryptii.com/pipes/caesar-cipher> to ENCODE with Ceasar Cipher, then I switch the shift digits to 4 as required in order to get the answer above.

1. Encrypt the message CRYPTO with the Caesar cipher with 6 as the key.

**IXEVZU**  
First, I changed the shift to 6 and then I entered to message to encode it in the website above.

1. The message QIIX PEXIV was encrypted using the Caesar cipher with 4 as the key. Decrypt the message.

**MEET LATER**

Here on the contrary, we are trying to decode an encrypted message that way we can be able to read it. Therefore, after we use the website above, we change the option to DECODE and change the SHIFT as well to 4.

1. The message SKKZ NKXK was encrypted using a Caesar cipher. Decrypt the message.

**MEET HERE**

Same instructions for question 3. However, the key is 6.

Exercise 2: Vignere cipher `

1. Encrypt FOLLO WTHEY ELLOW BRICK ROAD with the keyword OZ.  
   **tnzkc vhgsx skznk afhqj fnoc**

For Vigenere Cipher I use this link <https://planetcalc.com/2468/>

Put OZ as key (as required) and encrypted the message.

1. Decrypt LOSVW AZBSH DHQID ARSLG EL, encrypted with the Vignere cipher using SHOES as a key  
   **THERE ISNOP LACEL IKEHO ME**

Used “Cryptii.com” to decrypt it. For this one it did not give a clear message and I had to connect to words to get the meaning of it- There is no place like home.

Exercise 3: Breaking the Caesar Cipher

1. Decrypt the message encrypted with a Caesar cipher: PAXG LAHNEW B KXMNKG  
   **When should I return**

The challenge here is that there was no key provided so I had to do an auto solve key on <https://www.boxentriq.com/code-breaking/caesar-cipher> to receive different answers but the decrypted one was the 19 keys which is above.

1. Decrypt the message encrypted with a Caesar cipher: QUCN ZIL U JBIHY WUFF

**Wait for a phone call**20 keys; used the same site.

1. Decrypt the message encrypted with a Caesar cipher: GUR ENOOVG PENJYRQ BHG BS VGF UBYR

**The rabbit crawled out of its hole.**

Same instructions; 13 key.

4. Decrypt the message encrypted with a Caesar cipher:

MAXLX TKXGM MAXWK HBWLR HNKXE HHDBG ZYHK

**These aren’t the droids you’re looking for**

Same instructions

Exercise 4: Breaking the Vignere Cipher `

1. Decrypt the following message, which was encrypted with a Vignere cipher of length 4: `

BCRRBCQORHKEPSLSLCWRWXXDESPEZMPYQWCEBCBOSFHCIZHSQWVHCBRWRVLNEGDRCKRRQS.  
I used the same site “BOXENTRIQ” and I got this answer after I limited the length to 4   
**Do or do not there is no try judge me by my size do you reckless is he now things are worse**

2. Decrypt the following message, which was encrypted with a Vignere cipher of length 4:

KBPYU BACDM LRQNM GOMLG VETQV PXUQZ LRZNM GOMLG VETQV PXYIM HDYQL BQUBR

YILRJ MTEGW YDQWE GUPGC UABRY ILRJM XNQKA MHJXJ KMYGV ETQVP XCRWV FQNBL

EZXBW TBRAQ MUCAM FGAXY UWGMH TBEJB BRYIL RJMLC CAHLQ NWYTS GCUAB RYILR

JMLNT QGEQN AMRMB RYILR JMPGP BXPQN WCUXT GT

**it was the best of times it was the worst xf times it was the age of wisdom it was the age of foolishness it was the epoch of belief it was the epoch of incredulity it was the season of light it was the season of darkness it was the spring of hope it was the winter of despair**Same instructions

Exercise 5

Use what you know to decrypt the following message. Note, the original word spacing is intact:

LKZB RMLK X JFAKFDEQ AOBXOV TEFIB F MLKABOBA TBXH XKA TBXOV LSBO JXKV X NRXFKQ

XKA ZROFLRP SLIRJB LC CLODLQQBK ILOB TEFIB F KLAABA KBXOIV KXMMFKD PRAABKIV

QEBOB ZXJB X QXMMFKD XP LC PLJB LKB DBKQIV OXMMFKD OXMMFKD XQ JV ZEXJYBO

ALLO Q FP PLJB SFPFQBO F JRQQBOBA QXMMFKD XQ JV ZEXJYBO ALLO LKIV QEFP XKA KLQEFKD JLOB

**once upon a midnight dreary while I pondered weak and weary over many a quaint and curious volume of forgotten lore while I nodded nearly napping suddenly there came a tapping as of someone gently rapping rapping at my chamber door t is some visitor i muttered tapping at my chamber door only this and nothing more**

I decrypted it with BOXENTRIQ tool using Ceasar Cipher & Auto solver to get down to the result of the message above and the key is 23.