IT\_120\_Module 5\_Lab\_4

Exercise 1: Caesar Cipher

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

Answer: QEXL. I got this by taking the alphabet and shifting the alphabet by 4 to the left and comparing the two.

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

Answer: IXEVZU. I got this by taking the alphabet and shifting the alphabet by 6 to the left and comparing the two.

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

Answer: Meet Later. I got this by using the chart from earlier and counter left 4 spaces each letter.

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

Answer: Meet Here. I noticed that “S” was M so on my 6 letter cypher so I kept with it and kinda lucked out.

Exercise 2: Vignere cipher `

1. Encrypt FOLLO WTHEY ELLOW BRICK ROAD with the keyword OZ.

Answer: TNZKC VHGSX SKZNK AFHQJ. I plugged it into an online decoder: <https://www.dcode.fr/vigenere-cipher>

2. Decrypt LOSVW AZBSH DHQID ARSLG EL, encrypted with the Vignere cipher using SHOES as a key

Answer: There is no place like home. I used an online decoder: <https://www.dcode.fr/vigenere-cipher>

Exercise 3: Breaking the Caesar Cipher

1. Decrypt the message encrypted with a Caesar cipher: PAXG LAHNEW B KXMNKG

Answer: When should I return. I plugged it into an online decoder: <https://cryptii.com/pipes/caesar-cipher>

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

Answer: Wait for a phone call. Key was right 6 I plugged it into a decoder again

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

Answer: The Rabbit Crawled out of its hole. I plugged it into a decoder.

4. Decrypt the message encrypted with a Caesar cipher:

MAXLX TKXGM MAXWK HBWLR HNKXE HHDBG ZYHK

Answer: THESE ARENT THEDR OIDSY OUREL OOKIN GFOR. I plugged it into a decoder again.

Exercise 4: Breaking the Vignere Cipher `

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

BCRRBCQORHKEPSLSLCWRWXXDESPEZMPYQWCEBCBOSFHCIZHSQWVHCBRWRVLNEGDRCKRRQS.

Answer: Do or Do not there is no try judge me by my size do your reckless is he now things are worse. Key was Yoda. I plugged it into a decoder: <https://www.dcode.fr/vigenere-cipher>

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

Answer:

IT WAS THE BEST OF TIMES IT WAS THE WORST XF TIMES IT WAS RHE ARE OF WISDOM IT WAS THE AGE OF FOOLISHNESS IT WAS THE EPHOCH OF BELIEF IT WAS THE EEPOCH 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 DISPAIR

I again plugged this into a decoder

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

Answer:

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 SOME ONE GENTLY RAPPING RAPPING AT MY CHAMBER

DOOR T IS SOME VISITER I MUTTERED TAPPING AT MY CHAMBER DOOR ONLY THIS AND NOTHING MORE

I plugged it into a Caesar salad decoder…