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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 shifted every letter down 4 letters in the alphabet.
2. Encrypt the message CRYPTO with the Caesar cipher with 6 as the key.
   * IXEVZU – I shifted every letter down 6 letters in the alphabet.
3. The message QIIX PEXIV was encrypted using the Caesar cipher with 4 as the key. Decrypt the message.
   * MEET LATER – I shifted every letter up 4 letters in the alphabet.
4. The message SKKZ NKXK was encrypted using a Caesar cipher. Decrypt the message.
   * MEET HERE – I shifted every letter up 6 Letter in the alphabet, I started at 1 and made my way up from there.

Exercise 2: Vignere cipher `

**I had to google this and still don’t understand how this cipher quite works**

1. Encrypt FOLLO WTHEY ELLOW BRICK ROAD with the keyword OZ.
   * TNZKC VHGSX SKZNK AFHQJ FNOC – I could only do this using an online program.

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

* THERE IS NO PLACE LIKE HOME (THERE ISNOP LACEL IKEHO ME) – it used a code word and from what I’ve read it is a compilation of caeser ciphers

Exercise 3: Breaking the Caesar Cipher

**I had to use an online decrypter for the last two on this section**

1. Decrypt the message encrypted with a Caesar cipher: PAXG LAHNEW B KXMNKG
   * WHEN SHOULD I RETURN – The key for this cipher is 19 so its 19 letters down on each letter.
2. Decrypt the message encrypted with a Caesar cipher: QUCN ZIL U JBIHY WUFF
   * WAIT FOR A PHONE CALL – The key for this one is 20 so you have to go 20 letters down each in the alphabet
3. Decrypt the message encrypted with a Caesar cipher: GUR ENOOVG PENJYRQ BHG BS VGF UBYR
   * THE RABBIT CRAWLED OUT OF ITS HOLE – The key for this cipher is 39 so its 39 down in the alphabet for each letter
4. Decrypt the message encrypted with a Caesar cipher: MAXLX TKXGM MAXWK HBWLR HNKXE HHDBG ZYHK
   * THESE ARENT THE DROIDS YOURE LOOKING FOR (THESE ARENT THEDR OIDSY OUREL OOKIN GFOR) – This cipher key is 45 so all the letters must go down 45.

Exercise 4: Breaking the Vignere Cipher `

I have no idea how to complete this section

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

BCRRBCQORHKEPSLSLCWRWXXDESPEZMPYQWCEBCBOSFHCIZHSQWVHCBRWRVLNEGDRCKRRQS.

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

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 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 figured this out using the caeser cipher and the code nuber is 30 so every letter moves 30 places in the alphabet