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

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

IXEVZU

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

MEET LATER

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

MEET HERE

Exercise 2: Vignere cipher `

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

TNZKC VHGSX SKZNK AFHQJ FNOC

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

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.

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

Wait for a phone call.

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

The rabbit crawled out of its hole.

4. Decrypt the message encrypted with a Caesar cipher:

MAXLX TKXGM MAXWK HBWLR HNKXE HHDBG ZYHKThese aren’t the droids you’re looking for.

Exercise 4: Breaking the Vignere Cipher `

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

BCRRBCQORHKEPSLSLCWRWXXDESPEZMPYQWCEBCBOSFHCIZHSQWVHCBRWRVLNEGDRCKRRQS.

Do or do not – there is no try. Judge me by 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

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. ’Tis some visitor, I muttered, tapping at my chamber

door – Only this, and nothing more.