**Homework for Section#3 (approximate due date Sept 7th, 2020)**

1. Decipher the following cipher text, and uncover the key for Caesar:

**Alphabet:** abcdefghijklmnopqrstuvwxyz1234567;,./

Cipher text 🡺U742 ,wt P7pqxr ;xu7 awxrw 2tp3 dt74n,wx; ,.73ts x3,4 rx5wt7 u47 p r43rtp1ts 2t;;pvtn P1;4 ,.73ts x3,4 rxu7t ,wt rwxuu7t x3

u7t3rw awxrw 2tp3 3.2qt7n

**Answer:**

Generated by shifting right by 15 (example: a -> p)

**Plain Text:**

From the Arabic sifr which mean zero. this turned into cipher for a concealed message. Also turned into cifre the chiffre in french which mean number.

1. Use a 5-bit key to encrypt this message with Vigenere

**Answer:**

**key:** xafgt

**Cipher Text:**

Aavd tww Dgvjpz qzlt mutrf amer rbvq.ssuq epauvd xfwd xqweci lqh n ndlqmepwa qgrdmep. Vuzf tjjqty quqm tohhr ewc qpmjxoi km qdcyxq dyirz ptvv urkskt.

Link: <https://cryptii.com/pipes/caesar-cipher>