

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;;pvt n P1;4 ,.73ts x3,4 rxu7t ,wt rwxuu7t x3
u7t3rw awxrw 2tp3 3.2qt7n

Answer:

The screenshot shows the Cryptii web application interface for the Caesar cipher. It has three main panels: 'Ciphertext', 'Caesar cipher', and 'Plaintext'. The 'Ciphertext' panel contains the input text: 'U742 ,wt P7pqxr ;xu7 awxrw 2tp3 dt74n,wx; ,.73ts x3,4 rx5wt7 u47 p r43rtp1ts 2t;;pvt n P1;4 ,.73ts x3,4 rxu7t ,wt rwxuu7t x3 u7t3rw awxrw 2tp3 3.2qt7n'. The 'Caesar cipher' panel is set to 'SHIFT - 15 a--p' and 'ALPHABET abcdefghijklmnopqrstuvwxyz1234567;.,/'. The 'Plaintext' panel shows the decoded message: 'From the Arabic sifr which mean zero.this turned into cipher for a concealed message. Also turned into cifre the chiffré in french which mean number.'.

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

Answer:

The screenshot shows the Cryptii web application interface for the Vigenère cipher. It has three main panels: 'Plaintext', 'Vigenère cipher', and 'Ciphertext'. The 'Plaintext' panel contains the input message: 'from the Arabic sifr which mean zero.this turned into cipher for a concealed message. Also turned into cifre the chiffré in french which mean number.'. The 'Vigenère cipher' panel is set to 'VARIANT Standard Vigenère cipher', 'KEY xafgt', 'KEY MODE Repeat', and 'ALPHABET abcdefghijklmnopqrstuvwxyz1234567;.,/'. The 'Ciphertext' panel shows the encrypted message: '3rts b5e Fxtyih y23r 2n2zh rkt/ zjx;vtmoa fuwtx1 isz; ziunxd ftx t zosixxljj 62sxyz2. Fraa txx72d ntba cnl/2 tmlk v5ikl/2 is l/2nhn e5ihn 62as tc.bjxr'.

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