

vig_encryption

Purpose	Encrypt a message with a given key following the Vigenere Cipher rules
Assumptions	<ul style="list-style-type: none">• All input must be uppercase alphabetic letters• We are treating A=0 through Z=25.• Additionally a SPACE is treated as 26
Input	Message to be encrypted, key that will be used to encrypt
Output	Correctly encrypted ciphertext
State Changes	None
Base cases and expected behavior	<ul style="list-style-type: none">• Needs to make sure that the length of key is less than the length of the message

vig_decryption

Purpose	Decrypt a message with a given key following the Vigenere Cipher rules
Assumptions	<ul style="list-style-type: none">• All input must be uppercase alphabetic letters• We are treating A=0 through Z=25.• Additionally a SPACE is treated as 26
Input	Message to be decrypted, key that will be used to decrypt
Output	Correctly decrypted ciphertext
State Changes	None
Base cases and expected behavior	<ul style="list-style-type: none">• Needs to make sure that the length of key is less than the length of the message

vigenere

Purpose	Get a valid key from the user and then call the correct encryption or decryption function. It will also output all related text to the terminal and to a text file
Assumptions	<ul style="list-style-type: none"> • All input must be uppercase alphabetic letters • We are treating A=0 through Z=25. • Additionally a SPACE is treated as 26 • That mode is either the words "ENCRYPT" or "DECRYPT" • Assuming that the message is legal input
Inputs	"String mode" which is either the word "ENCRYPT" or "DECRYPT" and the message to use.
Outputs	NA
State Changes	None
Base cases and expected behavior	This function is getting a key from the user and turning it to uppercase letters. It is also going to make sure that the key is less than the message in length. And its going to output the message, key, and cipher/plaintext to the terminal and to textfiles.

vigenere testing

Purpose	Unit testing to make sure the encryption and decryption functions are working as expected
Assumptions	Is passing text that is already legal (uppercase letters only)
Inputs	NA
Outputs	NA
State Changes	None
Base cases and expected behavior	Will check to make sure the plaintext or ciphertext that is outputted is correct. Will output to terminal text that either says "passed" or "failed" depending on the results.

