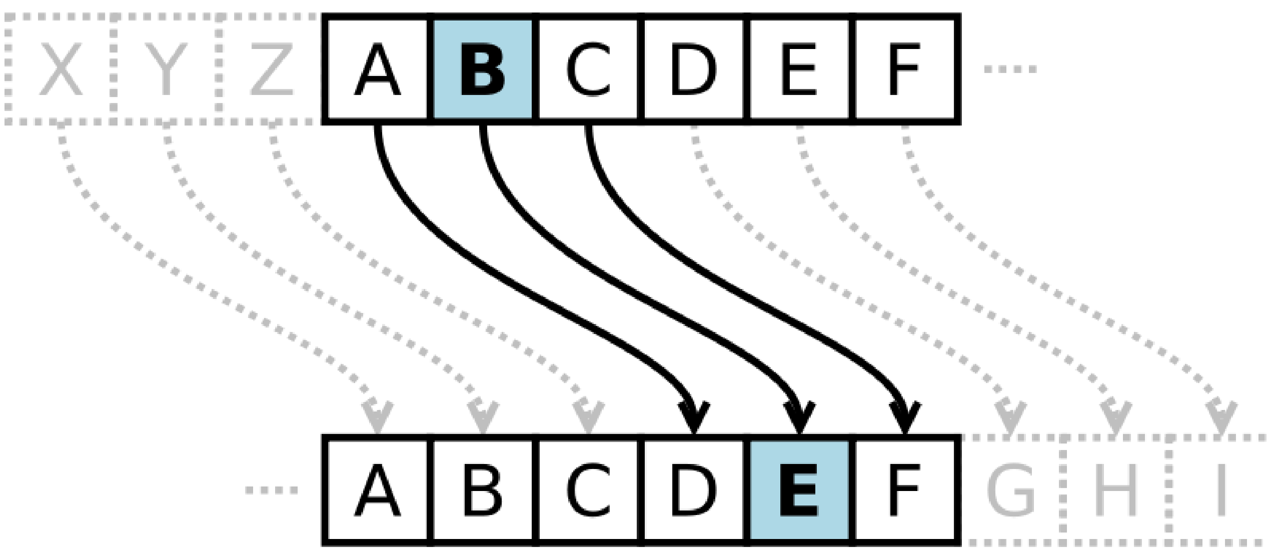
Type Script for selected topics 2 project

::

Created by Abdul-Rahman Ahmad Muhammad

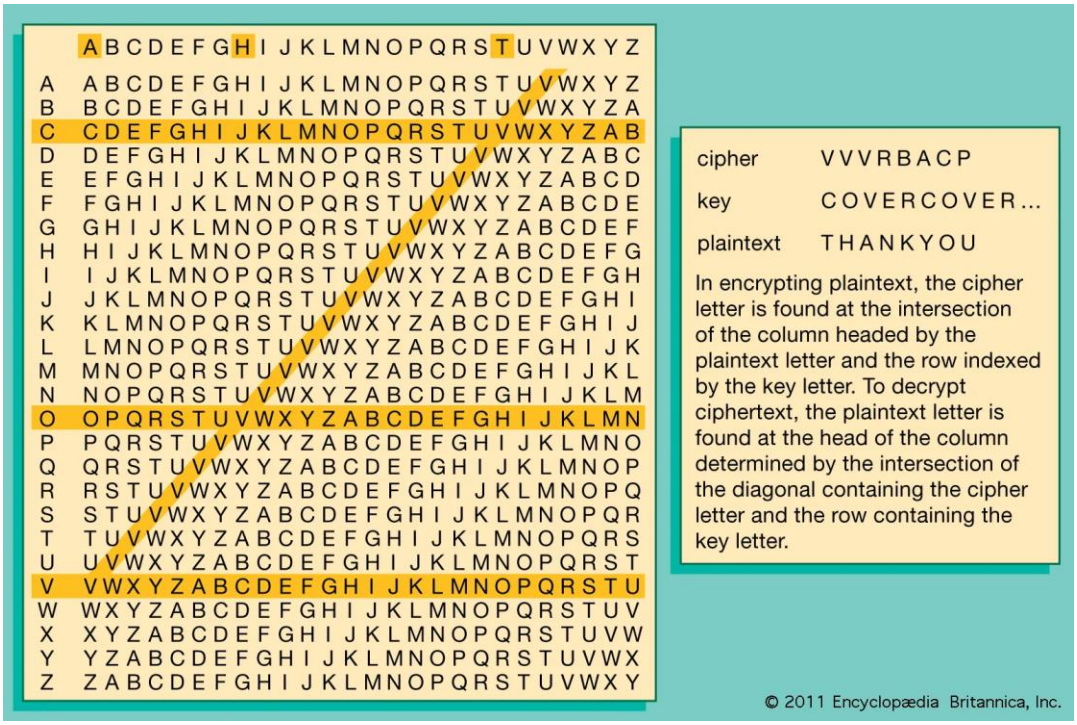
A **Caesar cipher** is a simple method of encoding messages. Caesar ciphers use a substitution method where letters in the alphabet are shifted by some fixed number of spaces to yield an encoding alphabet. A Caesar cipher with a shift of 11 would encode an A as a B, an M as an N, and a Z as an A, and so on. The method is named after Roman leader Julius Caesar, who used it in his private correspondence.



Running of Code:

```
PS C:\Users\ALPHA\Desktop\S_T> python -u "c:\Users\ALPHA\Desktop\S_T\Caeser Cipher.py"
A python program to illustrate Caesar Cipher Technique
Enter Plaintext : helloworld
Enter Shift Key : 4
Text : helloworld
Shift : 4
Cipher: lippsasvph
Repeat? [y|n]: n
#Thanks for your time#
#Created by Abdul-Rahman Alpha#
PS C:\Users\ALPHA\Desktop\S_T>
```

Vigenère cipher, type of substitution cipher used for data encryption in which the original plaintext structure is somewhat concealed in the ciphertext by using several different monoalphabetic substitution ciphers rather than just one; the code key specifies which particular substitution is to be employed for encrypting each plaintext symbol. Such resulting ciphers, known generically as polyalphabetics, have a long history of usage. The systems differ mainly in the way in which the key is used to choose among the collection of monoalphabetic substitution rules. The cipher was invented in 1553 by the Italian cryptographer Giovan Battista Bellaso but for centuries was attributed to the 16th-century French cryptographer Blaise de Vigenère, who devised a similar cipher in 1586.



Running of Code:

```
PS C:\Users\ALPHA\Desktop\S_T> python -u "c:\Users\ALPHA\Desktop\S_T\vigenere Cipher.py"
#A python program to illustrate vigenere Cipher Technique
Enter some Plain text : helloworld
Enter a key : welcome
Plain text:  helloworld
Key :  welcome
Cipher Text :  diwncisnpo
Repeat? [y|n]: n
#Thanks for your time#
#Created by Abdul-Rahman Alpha#
PS C:\Users\ALPHA\Desktop\S_T>
```

Thanks