About CRYPTO ……making programming easier.

CRYPTO is a simple library module that will encrypt any text string including punctuation.

If you encrypt text line by line and write the encrypted text to a TEXT file line by line, then you must also read the file line by line to recover the text for de-cryption.

If you encrypt a block of text and write it to a BYTE file in one piece, then you must also read the BYTE file in one piece to recover the text for de-cryption. The module contains built-in routines that read and write to entire files of any description.

The encryption process is driven by a 6 character password, which determines the way that original text characters are substituted and it determines the way that the original text is scrambled. The same password must be used in order to de-scramble the text and to re-substitute the characters with their original values. If the password is not 6 characters then the encryption process is aborted and password$ is returned as “ERROR”.

There are 10 numeric characters and 52 alphabetical characters (upper and lower case) making a possible 62 options for each of the 6 characters in the password. The number of different password permutations runs into many billions.

This module does not require any additional modules such as TrueCTRL or CTX or TDX.

CAUTION:
The module does not keep a record of your password, so make sure you don’t forget it.

The library module has 4 routines:

(1) encrypt(password$,original$,crypt$) – this routine converts the original text string *original$* into an encrypted string *crypt$.*
(2) decrypt(password$,original$,crypt$) – this routine converts an encrypted string *crypt$* back into the original text string *original$*
(3) encrypt_file(password$,anyfile$,cryptfile$) – this routine converts *anyfile$* into an encrypted version *cryptfile$.*
(4) decrypt_file(password$,anyfile$,cryptfile$) – this routine converts an encrypted file *cryptfile$* back into its original format *anyfile$*

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