

Re: Encryption algorithm

Source: <http://coding.derkeiler.com/Archive/Cobol/comp.lang.cobol/2004-01/0304.html>

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Vik Mehta wrote:

> *I am looking for a simple encryption algorithm to encrypt a 13*
> *character alphanumeric string in a COBOL program. Any help will be*
> *appreciated.*

There are several different things you could probably do... Some may consider these "obscuring" rather than "encryption", but what you get from these is worth every bit of what you're paying for them. :)

– ROT-13 – This can be done by Inspect...Converting.

```
Inspect My-String
  Converting "ABCDEFGHIJKLMNOPQRSTUVWXYZ"
            to "NOPQRSTUVWXYZABCDEFGHIJKLM"
```

– Reversing – Again, Inspect...Converting.

```
Inspect My-String
  Converting "ABCDEFGHIJKLMNOPQRSTUVWXYZ"
            to "ZYXWVUTSRQPONMLKJIHGFEDCBA"
```

Those two only work for letters – of course, the advantage to these is that you run the string through the same algorithm to encode and decode. There are some other options as well...

– You could convert the string to a 39-digit number by using a loop combined with Function Ord (which you'd decode with Function Char).

```
01 My-39-Digit-Number.
  12 My-3-Digits Occurs 13 Times Pic 9(03).
```

```
Perform Varying My-Idx from 1 by 1
  Until My-Idx > 13
  Move Function Ord (My-String (My-Idx:1))
    to My-3-Digits (My-Idx)
End-Perform
```

