

## AN Encryption System

Start from Step 3 if Encrypted Data is a Text Message

### Decryption

Step 1: The receiver writes hidden ASCII codes into the text.

Step 2: He finds the letters corresponding to these codes.

Step 3: He obtains the numbers corresponding to the letters.

Step 4: These numbers and the secret key are written in place of the inverse power series.

Step 5: The letters corresponding to the coefficients obtained here are written.

Step 6: The first clear text is obtained.

Taylor Series Coefficient = Security Key  $\times$  Secret Key(Corresponding ones) + Enumerated Value of Corresponding Letter in Encrypted Text

Convert the Taylor Coefficients to Usual ones

$$K_n = T_c / (n+3)!$$

Corresponding Enumerated Value will be Converted To Alphabets To Obtain The Message

Example:-

IF Security Key is 23

Secret key is 2

Encrypted Text is H

Enumerated Value of Corresponding Letter in Encrypted Text = 8

And  $T_c = 23 \times 2 + 8 = 54$

On Substituting in below Equation

$$K_n = T_c / (n+3)!$$

$$K_0 = 54 / (0+3)! \text{ say } n=0$$

$$K_0 = 54 / (3)! = 9$$

9 means I (Using enum)