Example:

Ceaser Encryption Function is:

f(p) = ( ap + k )mod26

Ceaser Decrption Function is :

f-1 (c) = [a-1(c - k)]mod26

Let us take an example of Ceaser Encryption Function.

Let a = 2, k = 3.

What is your name?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Char | Ascii - 32 | Ap+k | Enc. Ascii ((ap+k)mod95 + 32) | Encrypted char |
| W | 55 | 113 | 50 | 2 |
| h | 72 | 147 | 84 | T |
| a | 65 | 133 | 70 | F |
| t | 84 | 171 | 108 | l |
| (Space) | 0 | 3 | 35 | # |
| i | 73 | 149 | 86 | V |
| s | 83 | 169 | 106 | j |
| (Space) | 0 | 3 | 35 | # |
| y | 89 | 181 | 118 | v |
| o | 79 | 161 | 98 | b |
| u | 85 | 173 | 110 | n |
| r | 82 | 167 | 104 | h |
| (Space) | 0 | 3 | 35 | # |
| n | 78 | 159 | 96 | ~ |
| a | 65 | 133 | 70 | F |
| m | 77 | 157 | 94 | ^ |
| e | 69 | 142 | 78 | N |
| (Space) | 0 | 3 | 35 | # |
| ? | 31 | 65 | 97 | a |
|  |  |  |  |  |
|  |  |  |  |  |

Encrypted text is:

2TFl#Vj#vbnh#`F^Na

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Encrypted char | Ascii – 32 | Ceaser Dec. Function | Ceaser Dec. Function + 32 | Char |
| 2 | 18 | 55 | 87 | W |
| T | 52 | 72 | 104 | h |
| F | 38 | 65 | 97 | a |
| l | 76 | 84 | 116 | t |
| # | 3 | 0 | 32 | (Space) |
| V | 54 | 73 | 105 | i |
| j | 74 | 83 | 115 | s |
| # | 3 | 0 | 32 | (Space) |
| v | 86 | 89 | 121 | y |
| b | 66 | 79 | 111 | o |
| n | 78 | 85 | 117 | u |
| h | 72 | 82 | 114 | r |
| # | 3 | 0 | 32 | (Space) |
| ~ | 64 | 78 | 110 | n |
| F | 38 | 65 | 97 | a |
| ^ | 62 | 77 | 109 | m |
| N | 46 | 69 | 101 | e |
| # | 3 | 0 | 32 | (Space) |
| a | 65 | 31 | 63 | ? |
|  |  |  |  |  |
|  |  |  |  |  |