

Question 2 [ALPHA CHONG SHU SHANG RC21534].

Note that encryption key  $\Rightarrow (n + 2^2) \bmod 10$ ,

msg = '161803398',

$$(1 + 2^2) \bmod 10 = 5$$

$$(6 + 2^2) \bmod 10 = 0$$

$$(8 + 2^2) \bmod 10 = 2$$

$$(0 + 2^2) \bmod 10 = 4$$

$$(3 + 2^2) \bmod 10 = 7$$

$$(9 + 2^2) \bmod 10 = 3$$

encrypted letters digits = 5052 47732

encrypted letters = FAFC EHHDC

i. Decrypted message [161803398]

= BGBIADDJI

ii. Decryption Key is Caesar Cipher.

iii. Use more complex and longer encryption key.