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ALGORITHM: Message Encryption & Decryption System

1. START

2. MAIN MENU
   Display:
      1. Generate OTP
      2. Encrypt Message (OTP)
      3. Decrypt Message (OTP)
      4. Caesar Cipher Encrypt
      5. Caesar Cipher Decrypt
      6. Exit

   Input choice
   Call respective function

3. GENERATE OTP
   Input: message length
   FOR i = 0 to length-1
       otp[i] = random(0, 25)
   Display and save OTP

4. ENCRYPT WITH OTP
   Input: message, otp
   FOR each character in message
       IF alphabet THEN
           char_value = character - 'A' (or 'a')
           encrypted = (char_value + otp[i]) % 26
           ciphertext[i] = encrypted + 'A' (or 'a')
       ELSE
           ciphertext[i] = character
   Display ciphertext

5. DECRYPT WITH OTP
   Input: ciphertext, otp
   FOR each character in ciphertext
       IF alphabet THEN
           char_value = character - 'A' (or 'a')
           decrypted = (char_value - otp[i] + 26) % 26
           plaintext[i] = decrypted + 'A' (or 'a')
       ELSE
           plaintext[i] = character
   Display plaintext

6. CAESAR ENCRYPT
   Input: message, shift_key
   FOR each character in message
       IF alphabet THEN
           char_value = character - 'A' (or 'a')
           encrypted = (char_value + shift_key) % 26
           ciphertext[i] = encrypted + 'A' (or 'a')
       ELSE
           ciphertext[i] = character
   Display ciphertext

7. CAESAR DECRYPT
   Input: ciphertext, shift_key
   FOR each character in ciphertext
       IF alphabet THEN
           char_value = character - 'A' (or 'a')
           decrypted = (char_value - shift_key + 26) % 26
           plaintext[i] = decrypted + 'A' (or 'a')
       ELSE
           plaintext[i] = character
   Display plaintext

8. END
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