

Programiz C Online Compiler

Programiz PRO

main.c

Run

Output

Clear

```
1 #include <stdio.h>
2 #include <string.h>
3
4 #define MAX_LENGTH 100
5
6 void encrypt(char *plaintext, int *key, int key_length, char *ciphertext) {
7     int i, shift;
8     int text_length = strlen(plaintext);
9
10    for (i = 0; i < text_length; i++) {
11        // Only encrypt alphabetic characters
12        if (plaintext[i] >= 'A' && plaintext[i] <= 'Z') {
13            shift = key[i % key_length]; // Use modulo to cycle through the key
14            ciphertext[i] = 'A' + (plaintext[i] - 'A' + shift) % 26; // Encrypt
15        } else if (plaintext[i] >= 'a' && plaintext[i] <= 'z') {
16            shift = key[i % key_length];
17            ciphertext[i] = 'a' + (plaintext[i] - 'a' + shift) % 26; // Encrypt
18        } else {
19            ciphertext[i] = plaintext[i]; // Non-alphabetic characters remain
20                unchanged
21        }
22    }
23    ciphertext[text_length] = '\0'; // Null-terminate the string
24 }
25 int main() {
```

Enter the plaintext: HELLO  
Enter the key (space-separated integers between 0 and 26): 3

Activate Windows  
Go to Settings to activate Windows.