*#include <stdio.h>*

*#include <string.h>*

*#include <ctype.h>*

*void encrypt(char msg[], char key[]) {*

*int msgLen = strlen(msg), keyLen = strlen(key);*

*char result[100];*

*for (int i = 0; i < msgLen; i++) {*

*if (isalpha(msg[i])) {*

*result[i] = ((toupper(msg[i]) - 'A') + (toupper(key[i % keyLen]) - 'A')) % 26 + 'A';*

*} else {*

*result[i] = msg[i]; // keep spaces/punctuation*

*}*

*}*

*result[msgLen] = '\0';*

*printf("Encrypted: %s\n", result);*

*}*

*void decrypt(char msg[], char key[]) {*

*int msgLen = strlen(msg), keyLen = strlen(key);*

*char result[100];*

*for (int i = 0; i < msgLen; i++) {*

*if (isalpha(msg[i])) {*

*result[i] = ((toupper(msg[i]) - toupper(key[i % keyLen]) + 26) % 26) + 'A';*

*} else {*

*result[i] = msg[i];*

*}*

*}*

*result[msgLen] = '\0';*

*printf("Decrypted: %s\n", result);*

*}*

*int main() {*

*char message[100], key[100];*

*int choice;*

*printf("1. Encrypt\n2. Decrypt\nChoice: ");*

*scanf("%d", &choice);*

*getchar(); // clear newline*

*printf("Enter UPPERCASE message: ");*

*fgets(message, sizeof(message), stdin);*

*message[strcspn(message, "\n")] = '\0';*

*printf("Enter UPPERCASE key: ");*

*fgets(key, sizeof(key), stdin);*

*key[strcspn(key, "\n")] = '\0';*

*if (choice == 1)*

*encrypt(message, key);*

*else if (choice == 2)*

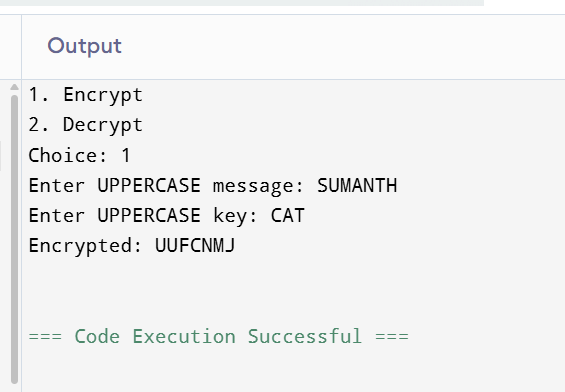
*decrypt(message, key);*

*else*

*printf("Invalid choice.\n");*

*return 0;*

*}*

**