Code :

#include <stdio.h>

#include <string.h>

int main() {

char message[100], ch;

int i, key, type = 0;

printf("1 for Encrypt | 2 for Decrypt: ");

scanf("%d", &type);

getchar();

if (type != 1 && type != 2) {

printf("Invalid choice. Use 1 for Encrypt or 2 for Decrypt.\n");

return 1;

}

printf("Enter a message: ");

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

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

printf("Enter key: ");

scanf("%d", &key);

key = key % 26;

for (i = 0; message[i] != '\0'; ++i) {

ch = message[i];

if (ch >= 'a' && ch <= 'z') {

if (type == 1)

ch = ((ch - 'a' + key) % 26) + 'a';

else

ch = ((ch - 'a' - key + 26) % 26) + 'a';

} else if (ch >= 'A' && ch <= 'Z') {

if (type == 1)

ch = ((ch - 'A' + key) % 26) + 'A';

else

ch = ((ch - 'A' - key + 26) % 26) + 'A';

}

message[i] = ch;

}

if (type == 1)

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

else

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

return 0;

}

Output :

