//Simple C program to encrypt and decrypt a string

**Software: Dev cpp**

**C language**

#include <stdio.h>

#include <string.h>

int main() {

int i, x;

char str[100];

printf("\nPlease enter a string:\t");

fgets(str, sizeof(str), stdin);

// Remove newline character from fgets if present

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

printf("\nPlease choose from the following options:\n");

printf("1 = Encrypt the string.\n");

printf("2 = Decrypt the string.\n");

scanf("%d", &x);

// Using switch-case statements

switch (x) {

case 1:

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

str[i] = str[i] + 3; // Encryption key = 3

}

printf("\nEncrypted string: %s\n", str);

break;

case 2:

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

str[i] = str[i] - 3; // Decryption key = 3

}

printf("\nDecrypted string: %s\n", str);

break;

default:

printf("\nInvalid option.\n");

break;

}

return 0;

}

