2.Monoalphabetic Substitution

Program:

#include <stdio.h>

#include <string.h>

int main() {

char text[100], enc[100],dec[100],ch;

int k=3;

printf("Enter the word: ");

scanf("%s", text);

for (int i = 0; i < strlen(text); i++) {

ch = text[i];

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

{

enc[i] = 'a' + (ch - 'a' + k) % 26;

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

enc[i] = 'A' + (ch - 'A' + k) % 26;

} else {

enc[i] = ch;

}

}

for (int i = 0; i < strlen(enc); i++) {

ch = enc[i];

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

{

dec[i] = 'a' + (ch - 'a' - k) % 26;

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

dec[i] = 'A' + (ch - 'A' - k) % 26;

} else {

dec[i] = ch;

}

}

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

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

    return 0;

}

Output:

