**Exp 3: Write a program in C to implement Caeser Cipher**

#include<stdio.h>

#include<ctype.h>

int main() {

char text[500], ch;

int key;

// Taking user input.

printf("Enter a message to encrypt: ");

scanf("%s", text);

printf("Enter the key: ");

scanf("%d", & key);

// Visiting character by character.

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

ch = text[i];

// Check for valid characters.

if (isalnum(ch)) {

//Lowercase characters.

if (islower(ch)) {

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

}

// Uppercase characters.

if (isupper(ch)) {

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

}

// Numbers.

if (isdigit(ch)) {

ch = (ch - '0' + key) % 10 + '0';

}

}

// Invalid character.

else {

printf("Invalid Message");

}

// Adding encoded answer.

text[i] = ch;

}

printf("Encrypted message: %s", text);

return 0;

}