**Task number-1**

#include <stdio.h>

#include <ctype.h>

void caesarCipher(char text[], int shift, int mode)

{

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

{

char ch = text[i];

if (isalpha(ch))

{

char base = isupper(ch) ? 'A' : 'a';

if (mode == 2)

{ // Decrypt mode

shift = -shift;

}

text[i] = (ch - base + shift + 26) % 26 + base;

}

}

}

int main()

{

char message[1000];

int shift, mode; // User Input

printf("Enter the message: ");

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

printf("Enter shift value: ");

scanf("%d", &shift);

printf("Choose mode (1 = Encrypt, 2 = Decrypt): ");

scanf("%d", &mode);

if (mode != 1 && mode != 2)

{

printf("Invalid mode. Choose 1 for encryption or 2 for decryption.\n"); return 1;

} // Perform encryption or decryption

caesarCipher(message, shift, mode); // Output result

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

return 0;

}