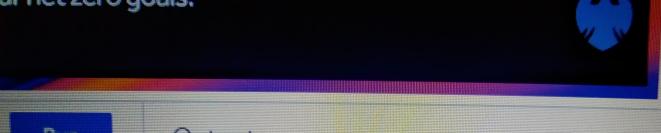```c
#include<stdio.h>

int main()
{
char message[100], ch;
int i, key;
printf("Enter a message to encrypt: ");
gets(message);
printf("Enter key: ");
scanf("%d", &key);
for(i = 0; message[i] != '\0'; ++i){
ch = message[i];
if(ch >= 'a' && ch <= 'z'){
ch = ch + key;
if(ch > 'z'){
ch = ch - 'z' + 'a' - 1;
}
message[i] = ch;
}
else if(ch >= 'A' && ch <= 'Z'){
ch = ch - key;
if(ch > 'Z'){
```

**Run** | Output

```
/tmp/X1JaLwvr03.o
Enter a message to encrypt: axzd
Enter key: 4
Encrypted message: ebdh
```

Programiz
C Online Compiler

main.c

Run

Output

```c
1  #include<stdio.h>
2
3  int main()
4 ▾ {
5    char message[100], ch;
6    int i, key;
7    printf("Enter a message to decrypt: ");
8    gets(message);
9    printf("Enter key: ");
10   scanf("%d", &key);
11 ▾ for(i = 0; message[i] != '\0'; ++i){
12     ch = message[i];
13 ▾   if(ch >= 'a' && ch <= 'z'){
14       ch = ch - key;
15 ▾     if(ch < 'a'){
16         ch = ch + 'z' - 'a' + 1;
17       }
18       message[i] = ch;
19     }
20 ▾   else if(ch >= 'A' && ch <= 'Z'){
21       ch = ch - key;
22 ▾     if(ch < 'A'){
```

```
/tmp/X1JaLwvr03.o
Enter a message to decrypt: edbh
Enter key: 4
Decrypted message: azxd
```

```cpp
#include<iostream>
#include<string>
#include<vector>
#include<map>
using namespace std;
int main(){
    int i,j,k,n;
    cout<<"Enter the message"<<endl;
    string s,origin;
    getline(cin,origin);
    cout<<"Enter the key"<<endl;
    string key;
    cin>>key;
    for(i=0;i<origin.size();i++){
        if(origin[i]!=' ')
            s+= origin[i];
    }
    vector<vector<char> > a(5,vector<char>(5,' '));
    n=5;
    map<char,int> mp;
    k=0;
    int pi,pj;
```

Output:
```
/tmp/trayiyx7vY.o
Enter the message
helloworld
Enter the key
test
dbqspvpukf
```