```
#include <iostream>
using namespace std;
string encrypt(string plain_text, int key){
    string cipher_text="";
    for(int i=0;i< plain_text.size(); i++){</pre>
        if(isupper(plain text[i])){
            cipher text+= char(int(plain text[i]+ key-
65)%26+65);
        }else{
            cipher text+= char(int(plain text[i]+ key-
97)%26+ 97);
    return cipher text;
string decrypt(string cipher_text, int key){
    string plain text="";
    for(int i=0;i< cipher text.size(); i++){</pre>
        if(isupper(cipher text[i])){
            plain text+= char((int(cipher text[i]- key-
65)%26+26)%26 + 65);
        }else{
            plain text+= char((int(cipher text[i]- key-
97)%26+ 26)%26 + 97);
    return plain text;
int main(){
    string plain text;
    cout<<"Enter plain text: ";</pre>
    cin>>plain_text;
    int key=3;
    string cipher text= encrypt(plain text, key);
    cout<<"\nEncryption: \n";</pre>
```

```
cout<<"Cipher: "<<cipher_text<<endl;
cout<<"\nDecryption:\n";
cout<<"Plain Text: "<<decrypt(cipher_text, key)<<endl;
}</pre>
```

OUTPUT:-

```
PS C:\Users\AJAY SHARMA\Desktop\crypto> cd "c:\Users\AJAY SHARMA\Desser.cpp -o ceaser } ; if ($?) { .\ceaser }
Enter plain text: hello

Encryption:
Cipher: khoor

Decryption:
Plain Text: hello
PS C:\Users\AJAY SHARMA\Desktop\crypto>

Ln 32, Col 1
```