**PROGRAM-1**

**Write a program to implement Caeser cipher in C++.**

#include<iostream>

#include<string.h>

#include<stdio.h>

using namespace std;

int main()

{

char str[50],ch[50],z[50];

int e,x,i;

cout<<"Enter the string:\n";

gets(str);

x=strlen(str);

for(i=0;i<x;i++)

{

if(str[i]!=' ')

{

e=str[i]+3-97;

ch[i]=(e%26)+97;

}

else if(str[i]==' ')

{

ch[i]=' ';

}

}

ch[i]='\0';

cout<<"Encrypted text: ";

puts(ch);

//decryption

for(i=0;i<x;i++)

{

if(ch[i]!=' ')

{

e=ch[i]-3-97;

{ if(e<0)

z[i]=((26+e)%26)+97;

else

z[i]=(e%26)+97;}

}

else if(ch[i]==' ')

{

z[i]=' ';

}

}

z[i]='\0';

cout<<"Decrypted text: ";

puts(z);

return 0; }

**OUTPUT-**

Enter the string:

caesercipher

Encrypted text: fdhvhuflskhu

Decrypted text: caesercipher