PROGRAM-1

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

```cpp
#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