**Dharmsinh Desai University, Nadiad**

**Department of Information Technology**

**DAIE, IT704**

**B.Tech. IT, Sem: VII**

**Submitted By**

**Roll No:** IT076

**Name:** Dishant Modh

# Experiment 1: Write a C/C++/Java program to implement Ceaser and mono alphabetic cipher.

# Code

#include<iostream>

#include<string.h>

#include<stdlib.h>

using namespace std;

string encryptionMessage(string Msg)

{

string CTxt = "";

int a = 3;

int b = 6;

for (int i = 0; i < Msg.length(); i++)

{

CTxt = CTxt + (char) ((((a \* Msg[i]) + b) % 26) + 65);

}

return CTxt;

}

string decryptionMessage(string CTxt)

{

string Msg = "";

int a = 3;

int b = 6;

int a\_inv = 0;

int flag = 0;

for (int i = 0; i < 26; i++)

{

flag = (a \* i) % 26;

if (flag == 1)

{

a\_inv = i;

}

}

for (int i = 0; i < CTxt.length(); i++)

{

Msg = Msg + (char) (((a\_inv \* ((CTxt[i] - b)) % 26)) + 65);

}

return Msg;

}

int main(int argc, char \*\*argv)

{

cout << "Enter the message: ";

string message;

cin >> message;

cout << "Message is :" << message;

cout << "\nEncrypted Message is : " << encryptionMessage(message);

cout << "\nDecrypted Message is: " << decryptionMessage(encryptionMessage(message));

}

# Output

# 