

**Exp No: 0**

## **Caesar Cipher**

### **Aim**

To implement Caesar cipher substitution technique.

### **Description**

The following steps encrypts the alphabet x by performing modulo addition with modulus 26. The reverse is done for decryption.

### **Assumption**

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>
1	2	3	4	5	6	7	8	9	10

<b>K</b>	<b>L</b>	<b>M</b>	<b>N</b>	<b>O</b>	<b>P</b>	<b>Q</b>	<b>R</b>	<b>S</b>	<b>T</b>
11	12	13	14	15	16	17	18	19	20

<b>U</b>	<b>V</b>	<b>W</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
21	22	23	24	25	26

### **Encryption**

$$E_n^{(x)} = (x + n) \bmod 26$$

### **Decryption**

$$D_n^{(x)} = (x - n) \bmod 26$$

SAMPLE INPUT & OUTPUT

VIT → Y L W

3

V = 22+3=25 MOD 26 = 25 Y

I = 9 + 3=12 MOD 26 =12 L

T=20+3 = 23 MOD 26=23 W