EX.NO: 1 **REGISTER NO: 210701509**

DATE:

CAESAR CIPHER

AIM:

To implement encryption and decryption in Caesar cipher technique

ALGORITHM:

- Get the plain text from the user
- Get the shift value between 1 and 25 from the user
- Create a new alphabet by shifting each letter by the shift value
- Replace each letter of the message with the corresponding letter of the new alphabet
- Print the encrypted text as output.

PROGRAM CODE:

```
def encrypt(text,s):
    result = ""
    for i in range(len(text)):
       char = text[i]
       if (char.isupper()):
         result += chr((ord(char) + s-65) % 26 + 65)
       else:
          result += chr((ord(char) + s - 97) % 26 + 97)
    return result

text = input("Enter the text to be Encrypted: \n")
s = int(input("Enter the number of Shift: \n"))

print ("Plain Text : " + text)
print ("Shift pattern : " + str(s))
print ("Cipher: " + encrypt(text,s))
```

OUTPUT:

```
Enter the text to be Encrypted:
AMAZON FOREST
Enter the number of Shift:
5
Plain Text : AMAZON FOREST
Shift pattern : 5
Cipher: FRFETSsKTWJXY
>>>
```

RESULT: