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Experiment 1

**Aim**

To implement Caesar Cipher.

**Theory**

In cryptography, a Caesar cipher, also known as Caesar's cipher, the shift cipher, Caesar's code, or Caesar shift, is one of the simplest and most widely known encryption techniques. It is a type of substitution cipher in which each letter in the plaintext is replaced by a letter some fixed number of positions down the alphabet. For example, with a left shift of 3, D would be replaced by A, E would become B, and so on. The method is named after Julius Caesar, who used it in his private correspondence. The encryption step performed by a Caesar cipher is often incorporated as part of more complex schemes, such as the Vigenère cipher, and still has modern application in the ROT13 system. As with all single-alphabet substitution ciphers, the Caesar cipher is easily broken and in modern practice offers essentially no communications security.

**Code**

text = input("Enter plain text: ").upper()

shift = int(input("Enter shift value: "))

encrypt\_text = ""

for i in range(len(text)):

    char = text[i]

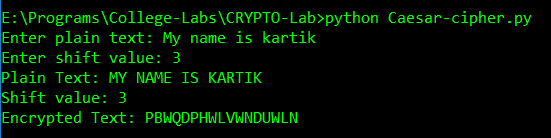
    encrypt\_text += chr((ord(char) + shift-65) % 26 + 65)

print(f"Plain Text: {text}")

print(f"Shift value: {shift}")

print(f"Encrypted Text: {encrypt\_text}")

**Output**

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**Conclusion**

Hence, we were able to perform Caesar Cipher.