

## 8. Python program for implementation symmetric encryption using Caesar cipher algorithm

```
def caesar_encrypt(text, shift):
    encrypted = ""
    for char in text:
        if char.isalpha():
            shifted = ord(char) + shift
            if char.islower():
                encrypted += chr((shifted - 97) % 26 + 97)
            else:
                encrypted += chr((shifted - 65) % 26 + 65)
        else:
            encrypted += char
    return encrypted

def caesar_decrypt(text, shift):
    return caesar_encrypt(text, -shift)

def main():
    message = input("Enter your message: ")
    shift_value = int(input("Enter shift value: "))

    encrypted_message = caesar_encrypt(message, shift_value)
    print("Encrypted:", encrypted_message)

    decrypted_message = caesar_decrypt(encrypted_message, shift_value)
    print("Decrypted:", decrypted_message)

if __name__ == "__main__":
    main()
```

Output:

Enter your message: Cyber Security

Enter shift value: 3

Encrypted: Fbehu Vhfxulwb

Decrypted: Cyber Security