9. python program implementation for hacking Caesar cipher algorithm

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def caesar_decrypt(ciphertext, shift):

    plaintext = ""
    for char in ciphertext:
        if char.isalpha():
            if char.isupper():
                plaintext += chr((ord(char) - shift - 65) % 26 + 65)
            else:
                plaintext += chr((ord(char) - shift - 97) % 26 + 97)
        else:
            plaintext += char
    return plaintext

def caesar_hack(ciphertext):

    for shift in range(26):
        decrypted_text = caesar_decrypt(ciphertext, shift)
        print(f"Shift {shift}: {decrypted_text}")

if __name__ == "__main__":
    encrypted_message = input("Enter the encrypted message: ").strip()
    caesar_hack(encrypted_message)
```

Output:

Enter the encrypted message: Khoor, Zruog!
Shift 0: Khoor, Zruog!
Shift 1: Jgnnq, Yqtnf!
Shift 2: Ifmmp, Xpsme!
Shift 3: Hello, World!
Shift 4: Gdkkn, Vnqkc!
Shift 5: Fcjjm, Umpjb!

Shift 6: Ebiil, Tloia!
Shift 7: Dahhk, Sknhz!
Shift 8: Czggj, Rjmgy!
Shift 9: Byffi, Qilfx!
Shift 10: Axeeh, Phkew!
Shift 11: Zwddg, Ogjdv!
Shift 12: Yvccf, Nficu!
Shift 13: Xubbe, Mehbt!
Shift 14: Wtaad, Ldgas!
Shift 15: Vszzc, Kcfzr!
Shift 16: Uryyb, Jbeyq!
Shift 17: Tqxxa, Iadxp!
Shift 18: Spwwz, Hzcwo!
Shift 19: Rovvy, Gybvn!
Shift 20: Qnuux, Fxaum!
Shift 21: Pmttw, Ewztl!
Shift 22: Olssv, Dvysk!
Shift 23: Nkrru, Cuxrj!
Shift 24: Mjqqt, Btwqi!
Shift 25: Lipps, Asvph!
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