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localhost:8888/notebooks/Prodigy%20Task-1.ipynb

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```
In [1]: def caesar_cipher_encrypt(text, shift):
encrypted_text = ""
for char in text:
    if char.isalpha():
        shift_base = ord('A') if char.isupper() else ord('a')
        encrypted_text += chr((ord(char) - shift_base + shift) % 26 + shift_base)
    else:
        encrypted_text += char
return encrypted_text

def caesar_cipher_decrypt(text, shift):
    return caesar_cipher_encrypt(text, -shift)

def main():
    while True:
        print("\nCaesar Cipher Program")
        print("1. Encrypt a message")
        print("2. Decrypt a message")
        print("3. Exit")
        choice = input("Enter your choice (1/2/3): ")

        if choice == "1":
            text = input("Enter the message to encrypt: ")
            shift = int(input("Enter the shift value: "))
            encrypted_message = caesar_cipher_encrypt(text, shift)
            print(f"Encrypted message: {encrypted_message}")

        elif choice == "2":
            text = input("Enter the message to decrypt: ")
            shift = int(input("Enter the shift value: "))
            decrypted_message = caesar_cipher_decrypt(text, shift)
            print(f"Decrypted message: {decrypted_message}")

        elif choice == "3":
```

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```
1# choice == "1":
    text = input("Enter the message to encrypt: ")
    shift = int(input("Enter the shift value: "))
    encrypted_message = caesar_cipher_encrypt(text, shift)
    print(f"Encrypted message: {encrypted_message}")

elif choice == "2":
    text = input("Enter the message to decrypt: ")
    shift = int(input("Enter the shift value: "))
    decrypted_message = caesar_cipher_decrypt(text, shift)
    print(f"Decrypted message: {decrypted_message}")

elif choice == "3":
    print("Exiting program. Goodbye!")
    break

else:
    print("Invalid choice. Please try again.")

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

Caesar Cipher Program
1. Encrypt a message
2. Decrypt a message
3. Exit
Enter your choice (1/2/3): 1
Enter the message to encrypt: Caesar Cipher
Enter the shift value: 1
Encrypted message: Dbfubs Djqifs

Caesar Cipher Program
1. Encrypt a message
2. Decrypt a message
3. Exit

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```
else:
    print("Invalid choice. Please try again.")

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

Caesar Cipher Program
1. Encrypt a message
2. Decrypt a message
3. Exit
Enter your choice (1/2/3): 1
Enter the message to encrypt: Caesar Cipher
Enter the shift value: 1
Encrypted message: Dbftbs Djqifs

Caesar Cipher Program
1. Encrypt a message
2. Decrypt a message
3. Exit
Enter your choice (1/2/3): 2
Enter the message to decrypt: Hi Avantika
Enter the shift value: 3
Decrypted message: Ef Xsxxqfhx

Caesar Cipher Program
1. Encrypt a message
2. Decrypt a message
3. Exit
Enter your choice (1/2/3): 3
Exiting program. Goodbye!

In []: