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import string
import secrets
import pyperclip

def generate_password(length, complexity):
    """
    Generate a random password with specified length and complexity.

    Args:
        length (int): The length of the password.
        complexity (str): A string representing the desired complexity of the password.
            'l' for lowercase letters, 'u' for uppercase letters,
            'd' for digits, 's' for symbols.

    Returns:
        str: The generated password.
    """
    # Define character sets for each complexity type
    lowercase_letters = string.ascii_lowercase
    uppercase_letters = string.ascii_uppercase
    digits = string.digits
    symbols = string.punctuation

    # Create a charset based on the specified complexity
    charset = ""
    if 'l' in complexity:
        charset += lowercase_letters
    if 'u' in complexity:
        charset += uppercase_letters
    if 'd' in complexity:
        charset += digits
    if 's' in complexity:
        charset += symbols

    # Check if valid complexity is provided
    if not charset:
        print("Invalid complexity! Please include at least one of 'l', 'u', 'd', 's'.")
        return None

    # Generate password using secrets module for randomness
    password = ''.join(secrets.choice(charset) for _ in range(length))
    return password

def display_welcome():
    """Display a welcome message for the password generator."""
    print("Welcome to Password Generator")

def display_farewell():
    """Display a farewell message for the password generator."""
    print("Thank you for using Password Generator. Goodbye!")

def generate_passwords():
    """Generate passwords based on user input."""
    while True:
        print("\nPASSWORD GENERATOR MENU:")
        print("1. Generate Password")
        print("2. Exit")

        # Get user input for choice
        choice = input("Enter your choice (1/2): ")

        if choice == '2':
            display_farewell()
            break

        if choice == '1':
            # Prompt user for password length and complexity
            length = input("Enter password length: ")
            complexity = input("Enter password complexity (l for lowercase, u for uppercase, d for digits, s for symbols, e.g., lud): ")

            try:
                # Convert length to integer and check if it's positive
                length = int(length)
                if length <= 0:
                    raise ValueError
            except ValueError:
                print("Invalid input! Please enter a positive integer for password length.")
                continue

            # Check if provided complexity is valid
            valid_complexity = set('ludse')

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if not set(complexity).issubset(valid_complexity):
    print("Invalid complexity! Please include only 'l', 'u', 'd', 's'.")
    continue


# Generate the password
password = generate_password(length, complexity)
if password:
    print("Generated Password:", password)

    # Ask user if they want to copy the password to clipboard
    copy_to_clipboard = input("Do you want to copy the generated password to clipboard? (yes/no): ").lower()
    if copy_to_clipboard == 'yes':
        pyperclip.copy(password)
        print("Password copied to clipboard!")
    else:
        print("Invalid choice! Please choose again.")

def main():
    """Main function to start the password generator."""
    display_welcome()
    generate_passwords()

if __name__ == "__main__":
    main()

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 Welcome to Password Generator

PASSWORD GENERATOR MENU:

1. Generate Password
2. Exit

Enter your choice (1/2): 1

Enter password length: 6

Enter password complexity (l for lowercase, u for uppercase, d for digits, s for symbols, e.g., lud): dusl

Generated Password: 3u*\$l3

Do you want to copy the generated password to clipboard? (yes/no): no

PASSWORD GENERATOR MENU:

1. Generate Password
2. Exit

Enter your choice (1/2): 2

Thank you for using Password Generator. Goodbye!