import string

import random

def generate\_password(length):

    # Define possible characters: uppercase, lowercase, digits, and special characters

    characters = string.ascii\_letters + string.digits + string.punctuation

    # Generate a random password

    password = ''.join(random.choice(characters) for i in range(length))

    return password

def main():

    print("Password Generator")

    try:

        # Prompt the user to specify the desired length of the password

        length = int(input("Enter the desired length of the password: "))

        if length <= 0:

            print("Error: Password length should be greater than 0.")

            return

        # Generate the password

        password = generate\_password(length)

        # Display the generated password

        print(f"Generated password: {password}")

    except ValueError:

        print("Error: Invalid input. Please enter a numeric value.")

if \_\_name\_\_ == "\_\_main\_\_":

    main()