import random

import string

def generate\_password(length):

# Define character sets

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

# Generate password by randomly selecting characters

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

return password

def password\_generator():

print("Welcome to the Password Generator!")

try:

# Prompt the user for the desired password length

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

if length < 1:

print("Password length must be at least 1!")

else:

# Generate and display the password

password = generate\_password(length)

print(f"Your generated password is: {password}")

except ValueError:

print("Invalid input! Please enter a valid number.")

# Run the password generator

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

password\_generator()