import random

import string

def generate\_password(length):

# Define the characters to use for the password

all\_characters = string.ascii\_letters + string.digits + string.punctuation

# Generate the password

password = ''.join(random.choice(all\_characters) for \_ in range(length))

return password

def main():

while True:

try:

# Prompt the user for the desired password length

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

# Ensure the length is a positive integer

if length <= 0:

print("Password length must be a positive integer.")

continue

# Generate the password

password = generate\_password(length)

# Display the password

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

# Exit the loop after successful generation

break

except ValueError:

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

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

main()