import random

import string

def generate\_password(length):

"""

Generate a random password of a given length.

Args:

length (int): The length of the password to generate.

Returns:

str: A random password of the given length.

"""

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

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

return password

def main():

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

password = generate\_password(length)

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

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

main()