455. Write a python program to make a module which contain all the basic functions related to string and import that module in another file and use that fuctions with string given by user.

# module file: string\_functions.py

def count\_upper\_case(string):

return sum(1 for c in string if c.isupper())

def count\_lower\_case(string):

return sum(1 for c in string if c.islower())

def count\_special\_characters(string):

special\_characters = "!@#$%^&\*()\_+-=[]{}:\";'<>,.?/\\|`~"

return sum(1 for c in string if c in special\_characters)

def reverse\_string(string):

return string[::-1]

# use\_string\_functions.py

import string\_functions

user\_string = input("Enter a string: ")

print("Upper case characters:", string\_functions.count\_upper\_case(user\_string))

print("Lower case characters:", string\_functions.count\_lower\_case(user\_string))

print("Special characters:", string\_functions.count\_special\_characters(user\_string))

print("Reversed string:", string\_functions.reverse\_string(user\_string))