**🔹 Project 1**

**Sort hyphen-separated colors alphabetically**

def sort\_colors(color\_string):

colors = color\_string.split('-')

colors.sort()

return '-'.join(colors)

# Sample Test

print(sort\_colors("green-red-yellow-black-white")) # Output: black-green-red-white-yellow

print(sort\_colors("PINK-BLUE-TAN-PURPLE")) # Output: BLUE-PINK-PURPLE-TAN

**🔹 Project 2**

**Create a Python module named mymodule.py**

# File: mymodule.py

def ispalindrome(name):

if name == name[::-1]:

return "Yes it is a palindrome."

else:

return "No it is not a palindrome."

def count\_the\_vowels(name):

vowels = 'aeiouAEIOU'

count = sum(1 for char in name if char in vowels)

return f"No of vowels: {count}"

def frequency\_of\_letters(name):

freq = {}

for char in name:

freq[char] = freq.get(char, 0) + 1

return "Frequency of letters: " + ', '.join(f"{k}-{v}" for k, v in freq.items())

**Test the module in another script**

# File: main.py

import mymodule

name = input("Enter name: ")

print(mymodule.ispalindrome(name))

print(mymodule.count\_the\_vowels(name))

print(mymodule.frequency\_of\_letters(name))

**Sample Input / Output**

**Input:**

bob

**Output:**

Yes it is a palindrome.

No of vowels: 1

Frequency of letters: b-2, o-1