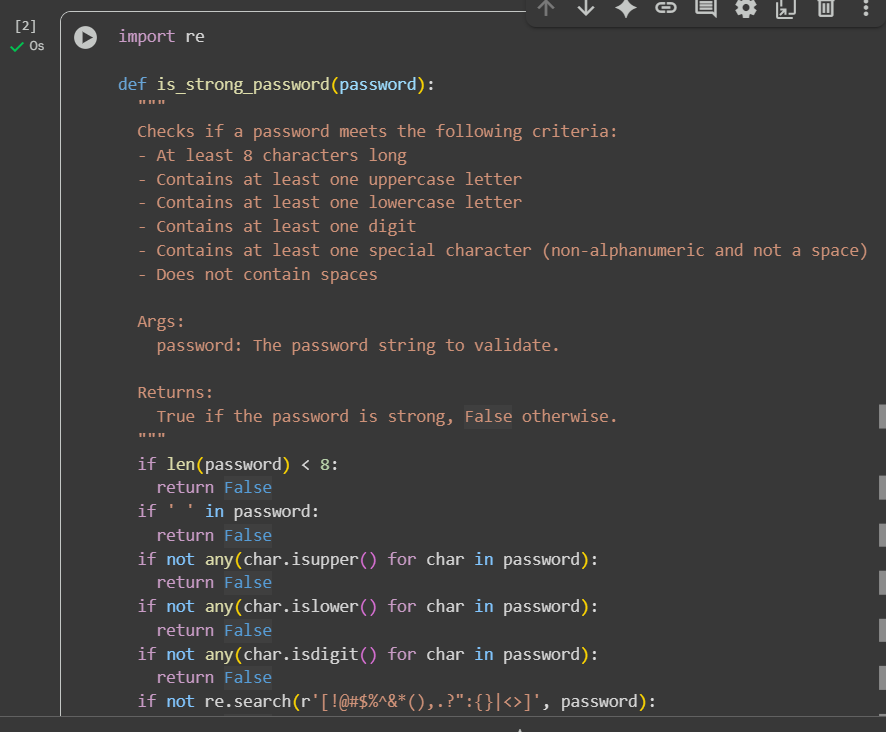
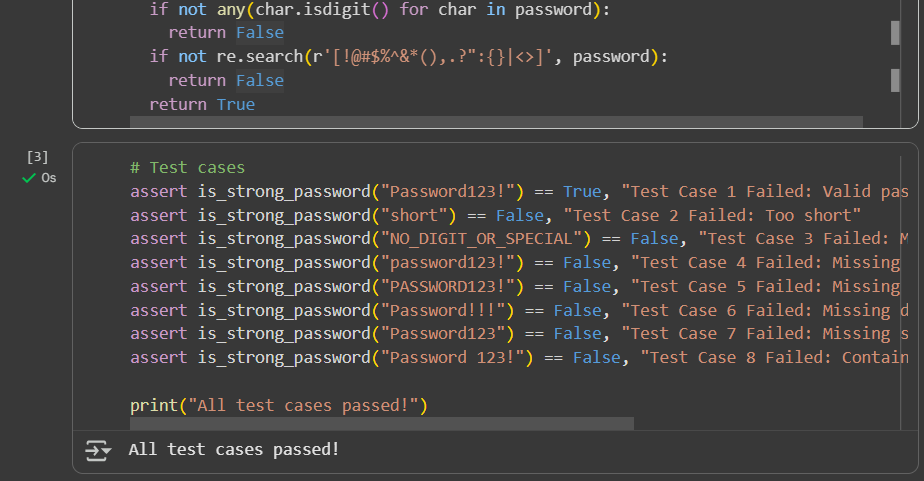
**LAB ASSIGNMENT 8.1**

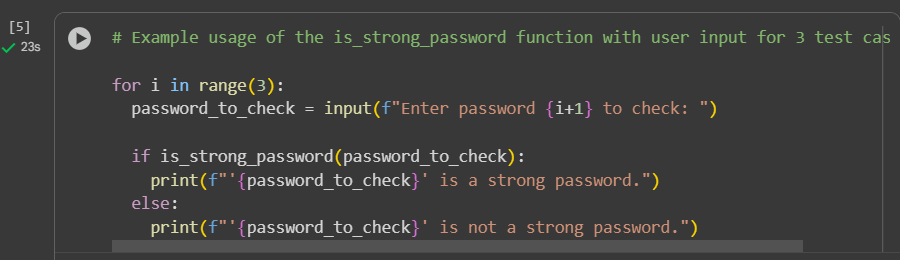
**NAME:TAHIYA MAHEROZE**

**ROLLNO:2403A52349**

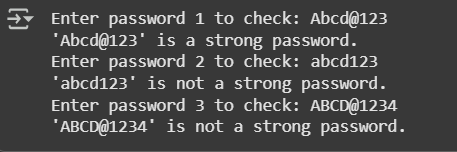
TASK1: Apply AI to generate at least 3 assert test cases for is\_strong\_password(password) and implement the validator function.



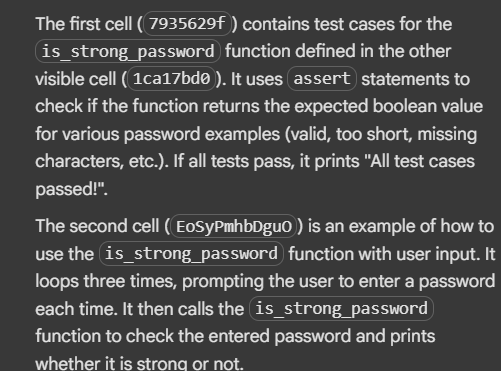




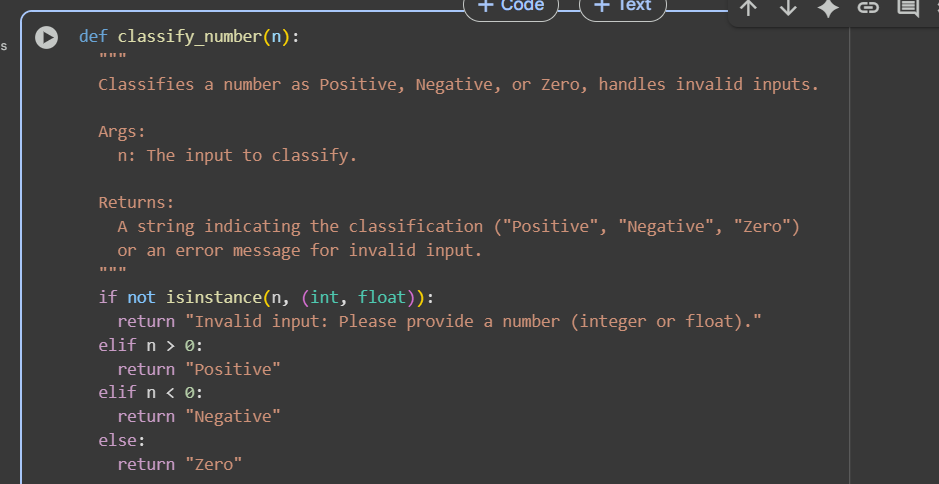
OUTPUT:

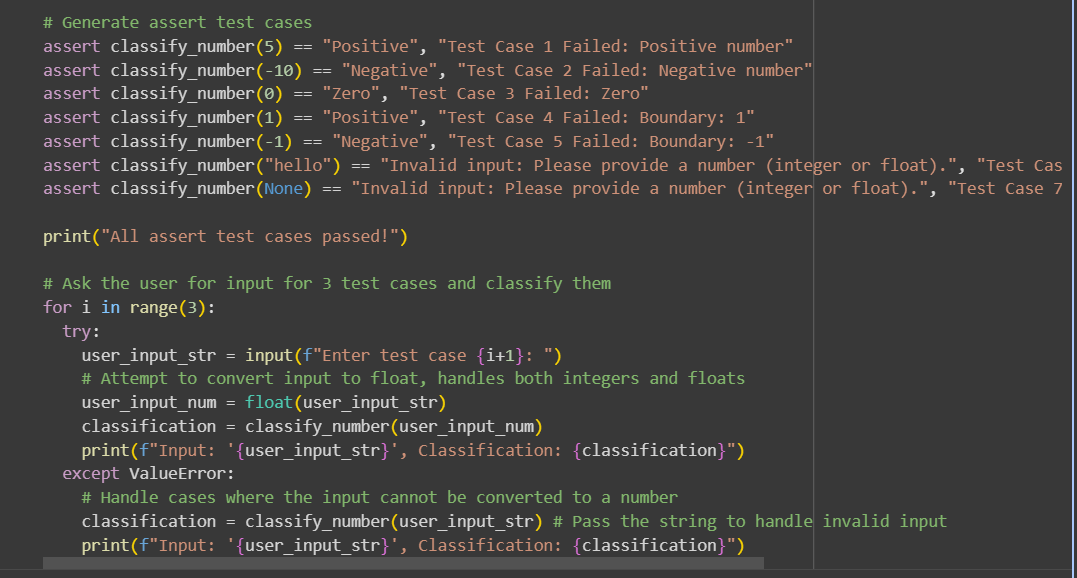


EXPLAINATION:

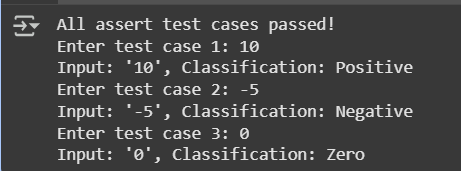


TASK2: write a python program to generate at least 3 assert test cases for a classify\_number(n) function. Implement using loops it should o Classify numbers as Positive, Negative, or Zero and o Handle invalid inputs like strings and None and o Include boundary conditions (-1, 0, 1) and ask the user input for 3 test cases

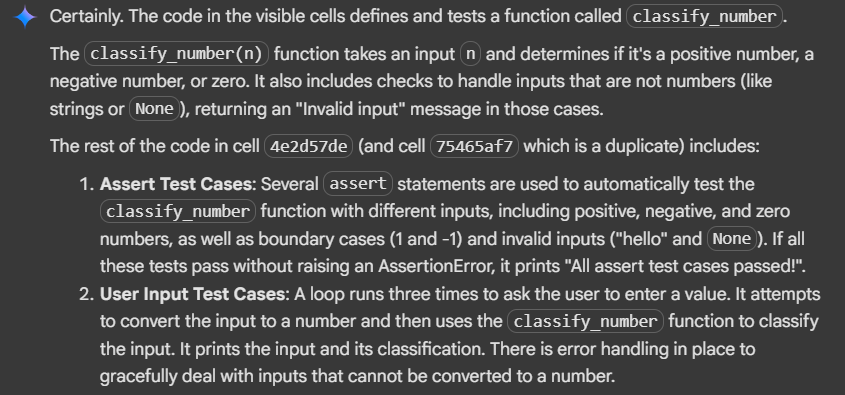




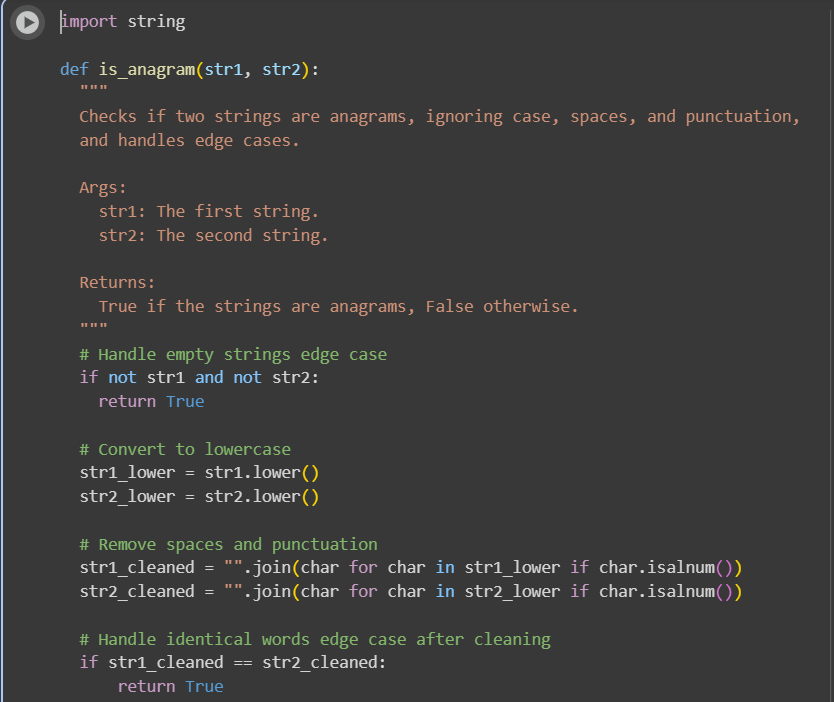
Output:



Explaination:

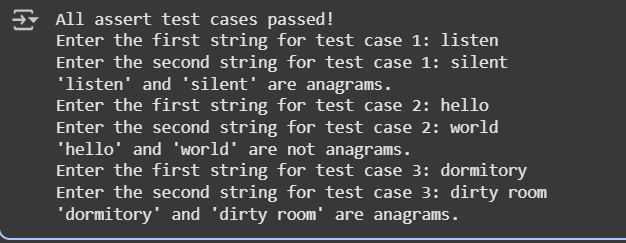


Task3: write a python program to generate at least 3 assert test cases for is\_anagram(str1, str2) and implement the function that need to Ignore case, spaces, and punctuation and o Handle edge cases (empty strings, identical words) and also aske the user input for 3 test case

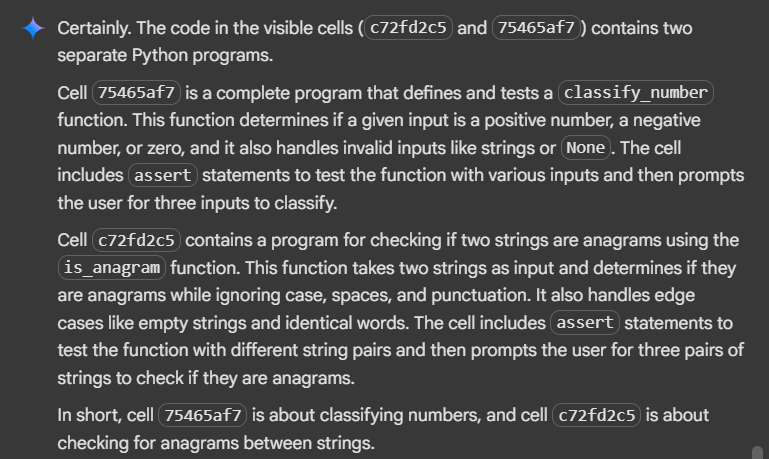




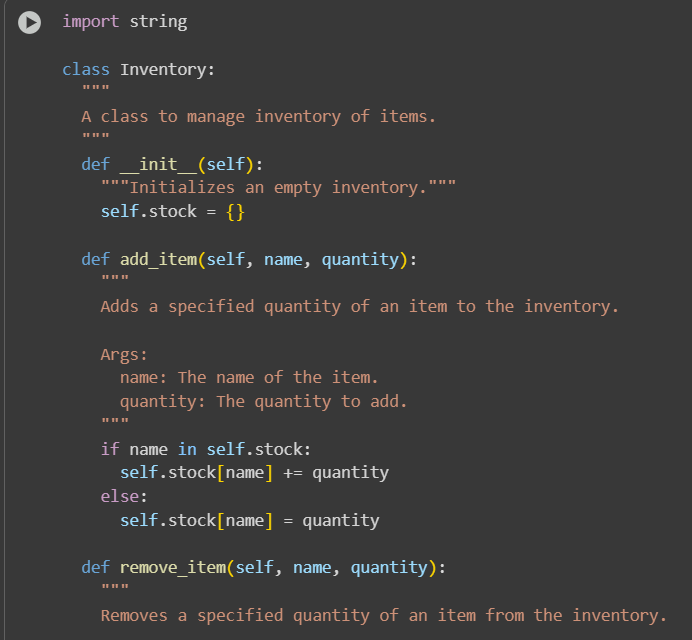
Output:

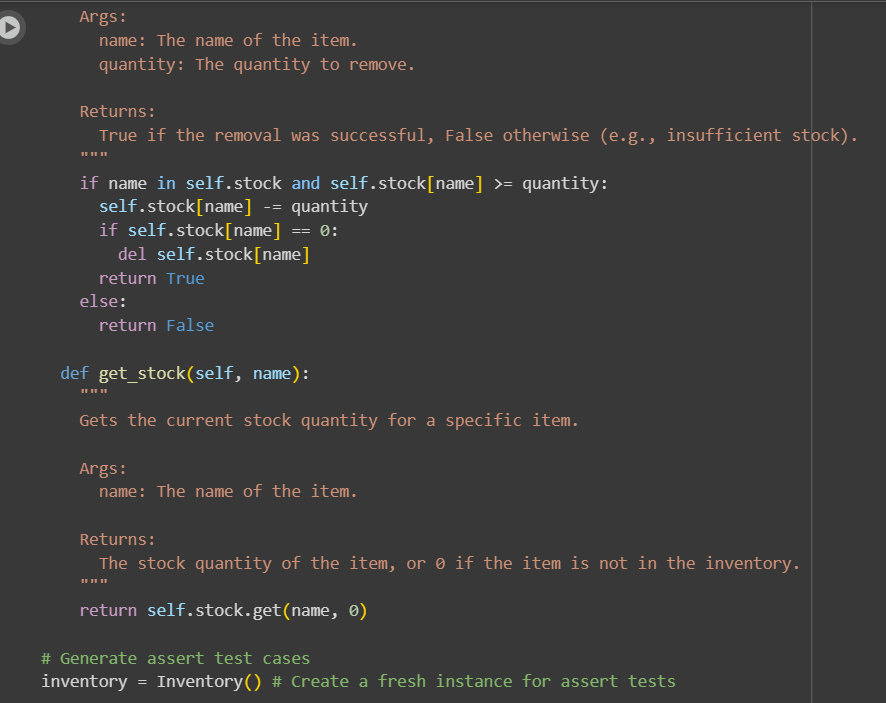


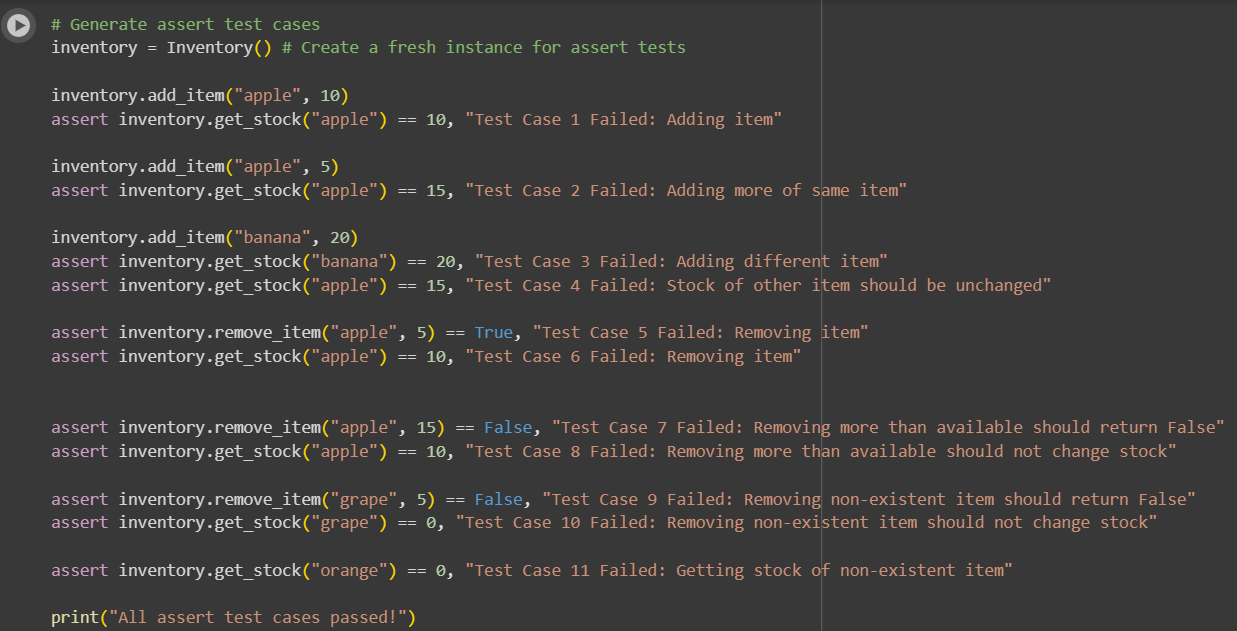
Explaination:

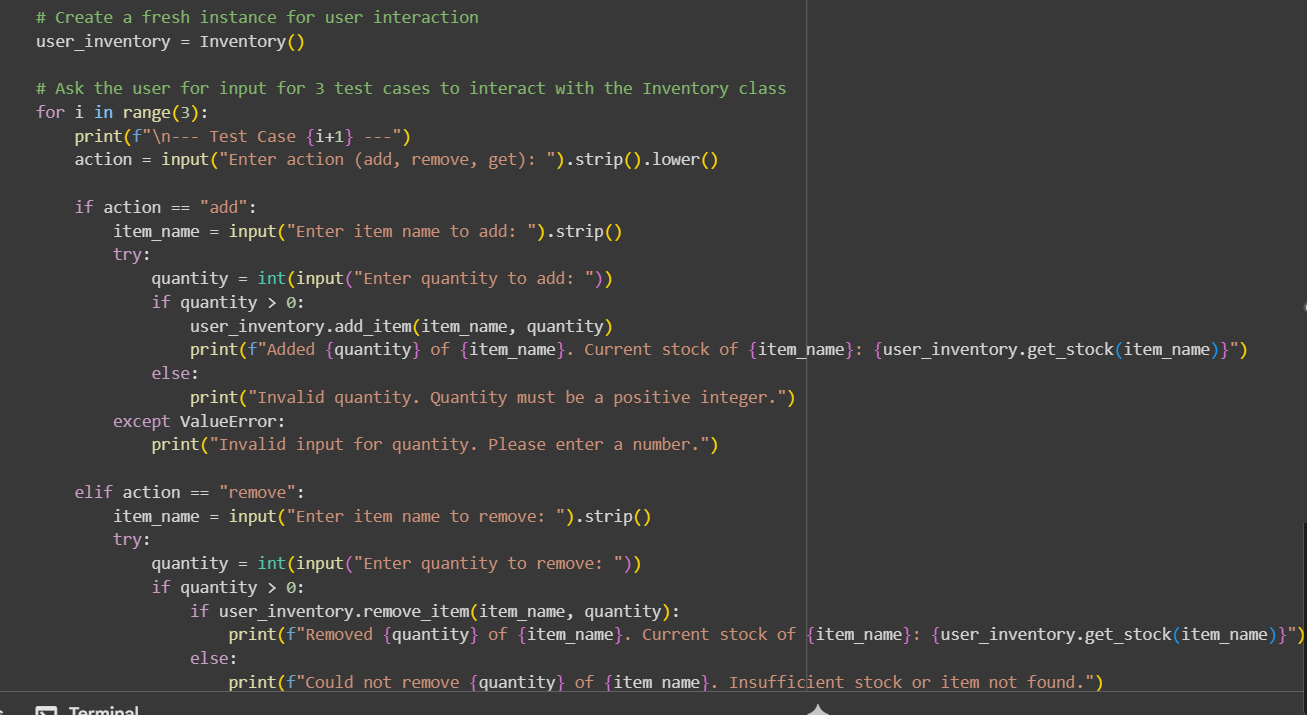


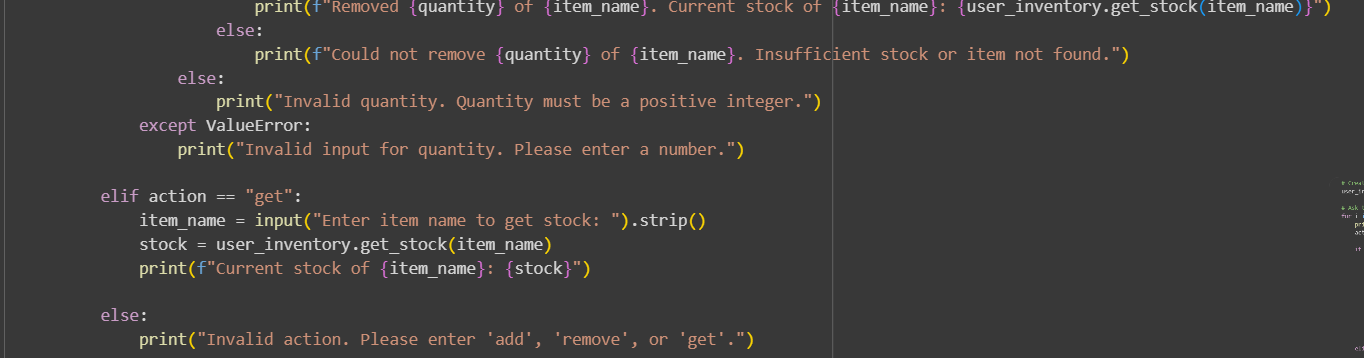
Task4: write a python program to generate at least 3 assert-based tests for an Inventory class with stock management with the methods o add\_item(name, quantity) remove\_item(name, quantity) get\_stock(name) and ask the user input for 3 test cases



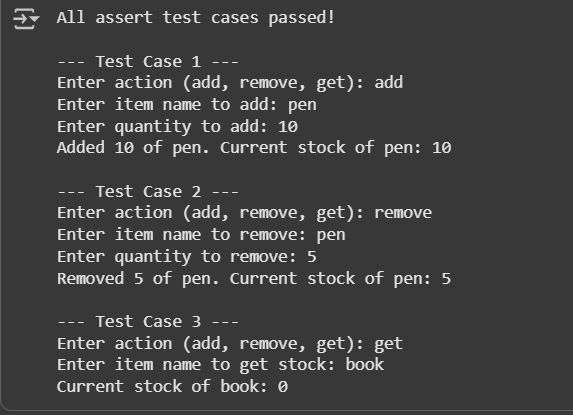




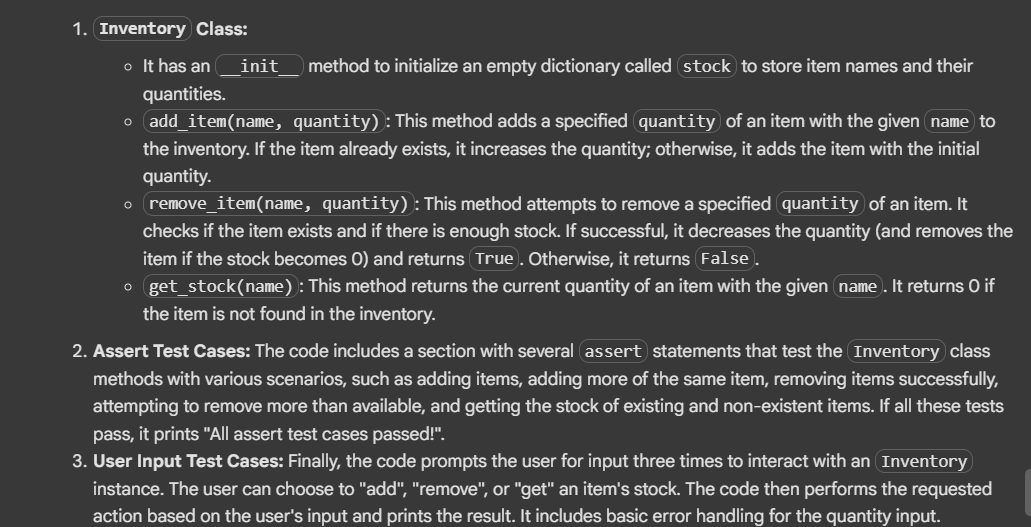




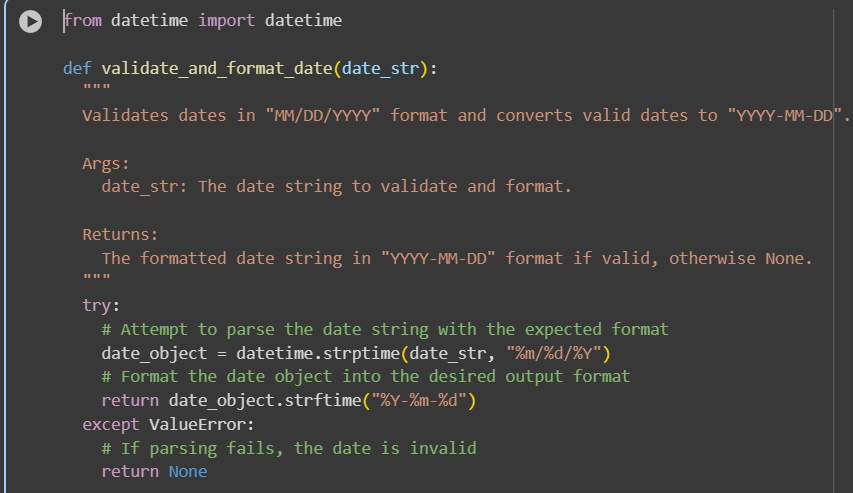
Output:

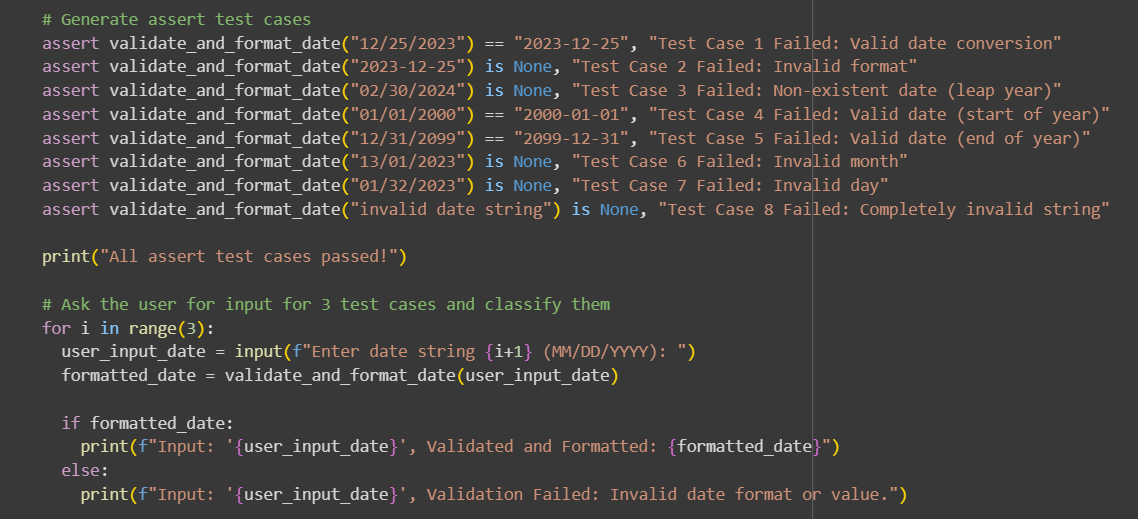


Explanation:

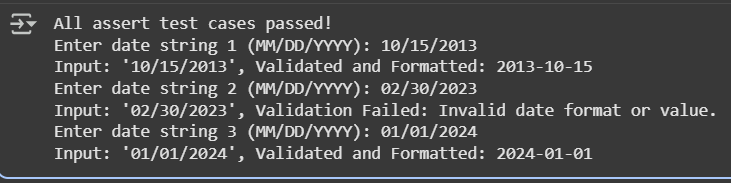


Task5: write a python program to generate at least 3 assert test cases for validate\_and\_format\_date(date\_str) to check and convert dates with o Validate "MM/DD/YYYY" format,Handle invalid dates,Convert valid dates to "YYYY-MM-DD" and ask the user input for 3 test cases





Output:



Explaination:

