Python OOP Week 12 HW

1) Write a class named Computer which will have brand, memory, speed and color as attributes. The brand, and color will be strings and the memory will be an integer. The speed will be an integer as well. You will need an __init__ method. You will also need to write methods (functions) to change the brand and swap the memory and speed. The names of the methods should be change_brand and swap_memory_speed. You will also need to create the __len__ and __str__ and __eq__ methods. For __len__ just return the memory + speed. For __str__ return a message that describes the computer. It can be something like "This computer is from Apple and has a memory of 5 and a speed of 6". Finally, for the __eq__ method two computers are the same if they have the same brand, memory, speed and color. Remember that __eq__ will return True of they are equal and False if they are not. For example…

my_computer = Computer("Apple", 5, 6, "White") → The memory is 5 and speed is 6
my_computer.change_brand("Razer")
my_computer.swap_memory_speed()
print(my_computer.brand) → Should print Razer
print(my_computer.speed) → Should print 6
my_other_computer = Computer("HP", 6, 5, "White")
if my_computer == my_other_computer:
    print("The computers are the same") → In this case this is what we print
else:
    print("The computers are not the same")