Tuple Assignment - 2

Q1. Write a Python program to check if a specified element appears in a tuple of tuples.
Original Tuple:
(('Red', 'White', 'Blue'), ('Green', 'Pink', 'Purple'), ('Orange', 'Yellow', 'Lime'))

Check if White presenet in said tuple of tuples!
True
Check if White presenet in said tuple of tuples!
True
Check if Olive presenet in said tuple of tuples!
False

Q2. WAP to check the tuple contain any duplicate element

Q3. WAP to check if all the element of a tuple are in descending order or not.

Q4. WAP to check if the elements in the first half of a tuple are sorted in ascending or not.

Q5. WAP to inputs name of n students and store them in a tuple . Also, input a name from the user and if this student is present in the tuple or not. Example:

Input:-

How many student?=5

Enter name of student 1: Anaya

Enter name of student 2:Ausha

Enter name of student 3:Kirat

Enter name of student 4:Kyle

Enter name of student 5:Suji

Output:-

Enter name to be Searched for : Suji

Suji exists in a tuple

Q6. Python program to find unique numbers in a given tuple –

original tuple: (1, 9, 1, 6, 3, 4, 5, 1, 1, 2, 5, 6, 7, 8, 9, 2)
Unique numbers: (1, 9, 6, 3, 4, 5, 2, 7, 8)

Q7. Write a Python program to convert a tuple of string values to a tuple of integer values.
Original tuple values:
(('333', '33'), ('1416', '55'))
New tuple values:
((333, 33), (1416, 55))

Q8. Write a Python program to calculate the product, multiplying all the numbers in a given tuple.

Original Tuple:

(4, 3, 2, 2, -1, 18)

Product - multiplying all the numbers of the said tuple: -864

Original Tuple:

(2, 4, 8, 8, 3, 2, 9)

Product - multiplying all the numbers of the said tuple: