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*Question 1 (10 points)* Given the tuple numbers = (4, 2, 8, 2, 9, 2, 10), perform the following:

a) Write a Python statement to count the number of occurrences of 2 in the tuple.

**numbers.count(2)**

b) Write a Python statement to find the index of the first occurrence of 9 in the tuple

**numbers.index(9)**

*Question 2 (10 points)* This exercise examines dictionaries in Python. Please implement the following:

- Start by defining an empty dictionary and name this dictionary States.
- Using three Python statements, enter the following three keys and their associated values. (Create each key by assignment).

Key	Value
New Jersey	Trenton
New York	Albany
Texas	Austin

- Write the Python command to fetch the value associated with the key New Jersey.

```
States = {}  
States['New Jersey'] = 'Trenton'  
States['New York'] = 'Albany'  
States['Texas'] = 'Austin'  
States['New Jersey']
```

When completed, your Word doc file should have five lines.

- One line to initialize the empty dictionary.
- Three lines to enter a key and a value (three pairs)
- One line to fetch the value associated with the key New Jersey.