

Assignment 3

Language Used: Python (version 9.3.4)

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In [1]: def count_words(inputStr):
        words = inputStr.split()

        # keys for dictionary
        keys = []
        for word in words:
            if word.lower() not in keys:    # ignore case
                keys.append(word.lower())

        # values for dictionary
        values = list(map(lambda v: words.count(v), keys))

        # form dictionary mapping
        result = dict(zip(keys, values))

        # display output in string format
        print(str(result))
```

```
In [2]: #sample test case 1
count_words("oh what a day what a lovely day")

{'oh': 1, 'what': 2, 'a': 2, 'day': 2, 'lovely': 1}
```

```
In [3]: #sample test case 2
count_words("don't stop believing")

{'don't': 1, 'stop': 1, 'believing': 1}
```

```
In [4]: #user test cases
count_words("how much wood could a Wood chuck chuck if a WOOD chuck could chuck wood")

{'how': 1, 'much': 1, 'wood': 2, 'could': 2, 'a': 2, 'chuck': 4, 'if': 1}
```

```
In [5]: #user test cases
count_words("this is a test THIS IS A TEST This Is A Test")

{'this': 1, 'is': 1, 'a': 1, 'test': 1}
```