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MODULE 8: PYTHON DICTIONARY

By www.HadoopExam.com

Note: These instructions should be used with the HadoopExam Apache Spark: Professional Trainings. Where it is executed and you can do hands on with trainer.

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1. What is Python Dictionary?
2. Accessing elements of dictionary
3. List and tuples
4. Sorting Dictionary
5. Dictionary reverse lookup
6. Using list as a value of dictionary

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Python Dictionary: It's a collection of key and value pairs.

Step 1: Create dictionary and add the elements to dictionary.

```
course_dict=dict() #Creating empty dictionary
course_dict['Hadoop'] = 3500 #Adding element
course_dict['Spark'] = 3500 #Adding element

print(course_dict)

course_dict['Spark'] = 3900 #Adding element
print(course_dict)
```

Note: Order of the elements will not always be the same.

Step 2: Accessing elements from dictionary.

```
course_dict['Spark'] #Element exist, hence it will return the value
course_dict['spark'] #Element does not exist, hence it will throw error
len(course_dict) #Number of pairs in dictionary
```

Step 3: Checking whether key or values exists in the dict or not.

```
#Checking for keys
'Spark' in course_dict
'spark' in course_dict

#Checking for values
all_values = course_dict.values()
'2900' in all_values
'3900' in all_values
3900 in all_values
```

Step 4: Count the number of time course exists in a list.

```
site1 = ['Hadoop', 'Spark', 'Python','Hadoop', 'Spark', 'Python','Hadoop', 'Spark', 'Python','Hadoop',
'Spark', 'Python','Hadoop', 'Spark', 'Python', 'Java', 'SQL', 'Unix', 'Cloud Computing', 'Java', 'SQL',
'Unix', 'Cloud Computing','Hadoop', 'Spark', 'Python','Hadoop', 'Spark', 'Python','Hadoop', 'Spark',
'Python','Hadoop', 'Spark', 'Python','Hadoop', 'Spark', 'Python', 'Java', 'SQL', 'Unix', 'Cloud
Computing', 'Java', 'SQL', 'Unix', 'Cloud Computing']

def word_count(mylist):
    mydict = dict()
    for word in mylist:
        if word not in mydict:
            mydict[word] = 1
        else:
```

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```

        mydict[word] += 1
    return mydict

#Call course count
course_count = word_count(site1)
print(course_count)

```

Step 5: Traverse the dictionary

```

def print_course(courses):
    for course_name in courses:
        print(course_name, courses[course_name])#Course name and Course Count

print_course(course_count)

```

Step 6: Dictionary sorting

```

#Iterate the dictionary in sorted order
for name in sorted(course_count):
    print(name, course_count[name])

```

Step 7: Reverse lookup, given a key find its all values.

```

def findCourseName(course_dict, count):
    for name in course_dict:
        if course_dict[name] == count:
            print name
        else:
            continue

findCourseName(course_count, 10)

```

Note: Reverse lookup on very big dictionary will be very slow.

Step 8: Now create a dictionary, which will have keys as course count and all the courses with the same count will be part of values (As list)

```

def group_course(mydict):
    grouped_course = dict()
    for key in mydict:
        val = mydict[key]
        if val not in grouped_course:
            grouped_course[val] = [key]
        else:
            grouped_course[val].append(key)

```

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```
return grouped_course

print(group_course(course_count)) #Print the result
```

- Lists can be values in a dictionary, as above example shows, but they cannot be keys.
- A dictionary is implemented using a hashtable and that means that the keys have to be hashable.
- Since dictionaries are mutable, they can't be used as keys, but they can be used as values.

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