Exercises of Chapter 7

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1) Try This: Create a dictionary
Look at the code below:
profile = {}
   for i in range (3):
     name = input('What is your name?')
     age = int(input('What is your age?'))
     profile[name] = age
     search = input('Please enter the name: ')
     print(profile[search])
2) Quick Check: Dictionary Operations
Let's write the code:
x = \{'a': 1, 'b': 2, 'c': 3, 'd': 4\}
y = \{'a': 6, 'e': 5, 'f': 6\}
del x['d']
print(x)
The result would be: {'a': 1, 'b': 2, 'c': 3}
z = x.setdefault('g', 7)
print(x)
The result would be:
{'a': 1, 'b': 2, 'c': 3, 'g': 7}
x.update(y)
print(x)
The result would be:
{'a': 6, 'b': 2, 'c': 3, 'g': 7, 'e': 5, 'f': 6}
```

3) Quick Check: What can be a key?

Can be 1 'bob' "filename" ("filename", "extension")

Can't be ('tom', [1, 2, 3]) ["file-name"]

*4) Try This: Using Dictionaries

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*5) Lab 7: Word Counting
moby_words = []
  for word in infile:
    if word.strip():
       moby_words.append(word.strip())
moby_words = []
with open('moby_01_clean.txt') as infile:
  for word in infile:
    if word.strip():
       moby_words.append(word.strip())
word_count = {}
for word in moby_words:
  count = word_count.setdefault(word, 0)
  count += 1
  word_count[word] += 1
word_list = list(word_count.items())
word_list.sort(key=lambda x: x[1])
print("Most common words:")
for word in reversed(word_list[-5:]):
  print(word)
print("\nLeast common words:")
for word in word_list[:5]:
  print(word)
The result would be:
The most common:
("the", 14)
("and", 9)
("i", 9)
("of", 8)
("is", 7)
The least common:
("see", 1)
("growing", 1)
("soul", 1)
("having", 1)
("regulating", 1)
```