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| **Mission 10 Assignment** | **Name:** |
| **Pre-Mission Preparation** | |
| In the last mission, you used a dictionary to store and access information. What do you remember about a dictionary? |  |
| **Mission 10 Checks** | |
| Objective #1  Where in CodeSpace do you send and receive data from CodeBot? |  |
| Objective #2  What built-in Python function is used to give information to CodeBot? |  |
| Objective #3  List at least 2 benefits of a dictionary:  What command retrieves a value from a key? | 1.  2. |
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| Objective #4  What code lets you add a key:value pair to an already defined dictionary? |  |
| Objective #5  What new way to use a dictionary is used in this objective? |  |
| Objective #6  What does “refactoring” mean?  What are 2 ways to define an empty dictionary? |  |
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| Objective #7  What is the code for iterating through the keys of a dictionary? |  |
| Objective #8  What command will remove a key from a dictionary?  When does a KeyError happen? |  |
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| Objective #9  How many key:value pairs does your final program contain? |  |
| **Post-Mission Reflection** | |
| On a scale of 1 (not fun) to 5 (the best!), rank this mission. Explain why. |  |
| On a scale of 1 (too easy) to 5 (very hard), rank this mission. Explain why. |  |
| Dictionaries are used in all types of software. They are an efficient way to search collections of items you define in code, or for looking up items for a simple task. Think about objects that complete a task after you tell it what to do. Discuss one object that may use a dictionary for efficiency: |  |