

ECOR1042 PYTHON DICTIONARY WORKSHEET

- Pull out a piece of paper. Write your name(s) on the paper.
- Write legibly. Another pair will be marking your work for you.
- Write the answers to the questions in the order of appearance. If you don't know how to do one question, leave a space for it. Write the number of the question and then its answer.
- Do not use any print() statements unless expressly told to do so.
- Store all results in a variable.
- When possible, try to answer the question in more than one way to demonstrate your programming chops!

Key	Value
Student Number	Grade (%)
10	55
23	66.7
14	87

1. Write a Python script to construct the initial dictionary
2. Write a Python script to add a student to the dictionary: Student 99 with a grade of 55%
3. Write a Python script to check whether Student 38 is in the class.
Challenge: Write the solution in two ways
4. Write a Python script to get Student 10's grade.
5. Write a Python script to get Student 38's grade.
6. Write a Python script to check whether anyone got 50% in the course.
7. Write a Python script to see how many people got 55% in the course. Use library functions.
8. Write a Python script to see how many people got 55% in the course. Do not use any list library functions.
9. Write a Python script to check whether anyone got over 50% in the course.
10. Write a Python script to find everyone who got over 50% in the course.

11. Draw a memory diagram of the following code to visualize its execution and identify the lesson to be learned about dictionaries (and lists and sets)

```
grades_before = grades.values()
del grades[23]
#grades.pop(23, None)
#grades.pop(23)
grades_after = grades.values()
```

12. Write a Python script that sorts this dictionary, returning the list of student numbers in ascending order, along with their grade.