**CSE 212 – Programming with Data Structures**

**W05 Prove – Response Document**

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| **Date:** | 10/11/2022 |
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**Question 1: From Part 1, how did you answer the interview question for the Set Operations problem (should be no more than 30 seconds if spoken aloud)? For the intersection, I would loop through each item in set1 and in the loop test to see if the item is in set2 if it is I would add the item to the result set and then return the result set. For the Union I will loop through set1 and add each item to result set, then in a separate loop iterate through set2 and add those items. Since the set won’t accept duplicates I’m already covered with duplicates. I will then return the result set.**

**Question 2: From Part 2, how did you answer the interview question for the Find Pairs problem (should be no more than 30 seconds if spoken aloud)? I will set up two empty sets one for the pair of words and one for all the pairs. I will then iterate through each word in the list and find the reverse of the word and store it. Then check to see if there are double letters in the word as well as making sure the pair is in order for the pairs list. Is to add the list of pairs to the result set. By using a set to return should insure I don’t have any duplicates.**

Remember: You need to submit the following code files in addition to this document:

* 05-prove\_set\_operations.py
* 05-prove\_find\_pairs.py