**CSE 373 Homework 4 Write up**

1. **Who is in your group (Give name, UW NetID & student number of each person)?**
2. **a) How did you design your tests & what properties did you test?**

**b) What boundary cases did you consider?**

1. **Conduct an experiment to determine which DataCounter implementation (HashTable\_SC, HashTable\_OP) is better for large input texts.**

**a) Describe your experimental setup:**

**1) Inputs used**

**2) How you collected timing information**

**3) Any details that would be needed to replicate your experiments**

**b) Experimental Results (Place your graphs and tables of results here).**

**c) Interpretation of Experimental Results**

**1) What did you expect about the results and why?**

**2) Did your results agree with your expectations? Why or Why not?**

**3) According to your experiment, which Hashtable implementation, separate chaining or open addressing, is better?**

1. **Conduct experiments to determine if changing the hash function affects the runtime of your HashTable.**

**a) Brief description of your hash functions**

**b) Experimental Results (Place your graphs and tables of results here).**

**Experiment with at least 2 hash functions (2 Hashing functions = 2 experiments depending on how you measured the runtime)**

**Don’t forget to give each graph a title and label the axes.**

**c) Interpretation (Your expectations and why? Did it match your results? If not, why?)**

1. **Using Correlator, does your experimentation suggest that Bacon wrote Shakespeare's plays?**

**Show at least one (you can experiment with more texts if you want) correlation value for each of:**

**a) Shakespeare's work compared to Shakespeare's work**

**b) Bacon's work compared to Bacon's work**

**c) Shakespeare's work compared to Bacon's work**

**According to the results of your experiments, did Bacon write Shakespeare's plays?**

1. **Include a description of how your project goes "above and beyond" the basic requirements (if it does).**
2. **If you worked with a partner:**

**a) Describe the process you used for developing and testing your code. If you divided it, describe**

**that. If you did everything together, describe the actual process used (eg. how long you talked**

**about what, what order you wrote and tested, and how long it took).**

**b) Describe each group member's contributions/responsibilities in the project.**

**c) Describe at least one good thing and one bad thing about the process of working together.**

1. **a) Which parts of the project were most difficult?**

**b) How could the project be better?**

**Appendix**

**Place anything else that you want to add here.**