**Lab: Lab 6**

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| **Problem statement(s)**  Continued exploring the collection framework skills with added exception handling. This allowed to understand how to use iterators and store values in maps. |

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| **Program description(s)**  First I wrote a method which was able to take arguments of inputted name string and a mark integer in order to store this value in a map. I then added code which was able to output this map in a reasonable format.  Then added code to find both average and highest marks from the map. This worked by looping through the map and selecting the relevant items or calculating the average. This is then all outputted to the user.  Then appropriate exception handling was put in place to handle any negative inputs. |

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| **Test description**  Exercise 1  Test: with name and marks inputted does the method output all marks as expected.  Result: Passed, showed as expected.  Test: Does negative inputs get handled appropriately?  Result: Passed as all items in the map are positive as the user is asked again if they want to input anything or not, if they input a negative mark at all. |
| **Known bugs**  With the *“more?”* question if the user types an in appropriate input instead of the y or n expected – the program just terminates. It may be better for there to be a more appropriate output of some kind and an attempt to re enter your input. |
| **Possible improvements**  With the *“more?”* question if the user types an in appropriate input instead of the y or n expected – the program just terminates. It may be better for there to be a more appropriate output of some kind and an attempt to re enter your input |
| **Comments**  All tasks completed |
| **Extra credit**  None |
| **References**  None |