**AC12001**

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Lab Title: …AC12001 assignment 2: Sets – Lottery Simulation………………………………..……….

Test number/date/version: 10/02/19 ……………………………………….……..

Test Notes: …Tests run on submitted assignment ……………………………

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| **Test Description** | **Test Data** | **Expected result** | **Worked?** |
| Add data to set then print the set | 1,2,3,4,5,6 | Data is added to the set and the data is printed | Y |
| Add data to set then remove it and print it. | 1,2,3,4,5,6 | Data is added then removed and prints a blank set | Y |
| Generate Lottery Numbers, add them to the set then print them | 1,2,3,4,5,6 range of 6 | Generates lottery numbers with no duplicates and print them to the screen | Y |
| State a range | 1,2,3,4,5,6  Range of 6 | Data is processed, and the max range of the lottery is 6. Prize should be the jackpot | Y |
| Set Intersection | 1,2,3,4,5,6  Range of 6 | Print both sets, work out that reward should be the jackpot | Y |
| Set Intersection | 1,2,3,4,5,6  Range of 15 | Print Both sets, calculate what reward the user should get according to however many numbers match in each set | Y |
| Set Intersection | 1,2,3,4,5,6  Range of 30 | Print both sets, calculate if user has won anything and if they have won nothing it prints to the screen | Y |
| Run for a number of weeks | Enter 2 weeks to run for.  1,2,3,4,5,6  Range of 10 | Program keeps the same numbers for the user but generates different numbers for every week. Prints the amount the user won | N |
| Run for a number of weeks | Enter 2 weeks to run for.  1,2,3,4,5,6  Range of 10 | Program keeps the same numbers for the user but generates different numbers for every week. | Y |
| Calculate Total Winnings after number of weeks | Enter 2 weeks to run  1,2,3,4,5,6  Range of 15 | Program keeps the same numbers for the user but generates different numbers for every week. Prints the amount the user won after calculating the price of tickets | Y |
| Run a multiplayer game | Enter weeks to run 2  Enter players 2  Player 1: 1,2,3,4,5,6  Player 2: 1,2,3,7,8,9  Range of 10 | Output results after doing calculations | N |
| Run a multiplayer Game without the weeks function | Players 2  Player 1:  1,2,3,4,5,6  Player 2:  1,2,3,7,8,9  Range of 10 | Output result after doing calculation | Y |