**Manual unit test for main\_menu.py**

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| **Test Scenario** | **Test Description** | **Test Values** | **Expected**  **Outcome** | **Actual**  **Outcome** | **Justification** |
| **1.0** | Display Main menu | Run maze | Main Menu  =========  [1] Read and load maze from file  [2] View Maze  [3] Play maze game  [4] Configure current maze  [0] Exit Maze  Enter your input: |  |  |
| 2.0 | Test the program on input option 1 | Enter your input: “1”. | “Option [1] Read and load maze from file”  “Enter the name of the data file:”  . |  |  |
| 3.0 | Test the program on input option 2 | Enter your input: “2”. | ['X', 'X', 'X', 'X', 'X', 'X', 'X', 'X']  ['X', 'O', 'O', 'O', 'X', 'O', 'A', 'X']  ['X', 'O', 'X', 'O', 'X', 'O', 'X', 'X']  ['X', 'O', 'X', 'O', 'X', 'O', 'O', 'X']  ['X', 'O', 'X', 'O', 'X', 'X', 'O', 'X']  ['X', 'O', 'X', 'O', 'X', 'O', 'O', 'X']  ['X', 'O', 'X', 'O', 'O', 'O', 'X', 'X']  ['X', 'B', 'X', 'X', 'X', 'X', 'X', 'X']  Enter your input: |  |  |
| 4.0 | Test the program on input option 3 | Enter your input: “3”. | Enter your input:3  ========================================  ['X', 'X', 'X', 'X', 'X', 'X', 'X', 'X']  ['X', 'O', 'O', 'O', 'X', 'O', 'A', 'X']  ['X', 'O', 'X', 'O', 'X', 'O', 'X', 'X']  ['X', 'O', 'X', 'O', 'X', 'O', 'O', 'X']  ['X', 'O', 'X', 'O', 'X', 'X', 'O', 'X']  ['X', 'O', 'X', 'O', 'X', 'O', 'O', 'X']  ['X', 'O', 'X', 'O', 'O', 'O', 'X', 'X']  ['X', 'B', 'X', 'X', 'X', 'X', 'X', 'X']  Location of Start (A) = (Row 1, Column 6)  Location of End (B) = (Row 7, Column 1)  Press 'W' for UP, 'A' for LEFT, 'S' for DOWN, 'D' for RIGHT, 'M' for MAIN MENU:. |  |  |
| 5.0 | Test the program on input option 4 | Enter your input: “4”. | Invalid choice. Enter 1-5  Main menu display again |  | Option 4 has popup  an error message  because our option 4  haven’t started  coded yet. |
| 6.0 | Test the program on input option 0. | Enter “Yes” on the Kill app pop-up message box | App close. |  |  |