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| Test Number | Version Number | Code being tested | What’s being tested | Expected outcome | Actual outcome | Needs improvement |
| 01 | ce09c90 | RUN.py – Main Menu | To see if the program runs CLI.py when the user inputs the number “1” | When the user inputs the number “1” the program runs CLI.py | The program acted as expected | N/A |
| 02 | ce09c90 | To see if the program runs GUI.py when the user inputs the number “2” | When the user inputs the number “2” the program runs GUI.py | The program acted as expected | N/A |
| 03 | ce09c90 | To see if the program runs the help function when the user inputs the number “3” | When the user inputs the number “3” the program runs the help function. | The program acted as expected | N/A |
| 04 | ce09c90 | To see if the program end when the user inputs the number “4” | The program end when the user inputs the number “4” | The program acted as expected | N/A |
| 05 | ce09c90 | To see what happens when the user inputs a number not specified in the menu | The program outputs an error stating you have inputted an invalid number | The program acted as expected | N/A |
| 06 | ce09c90 | To see what happens wen the user inputs a non-valid data type e.g. one or %. | The program outputs an error message stating that a non-valid data set has been entered. | The program acted as expected | N/A |
| 07 | ce09c90 | Run.py – Help Function | To see if the function outputs the text specified in the function | The program outputs the data specified in the function | The program acted as expected | N/A |
| 08 | ce09c90 | GUI.py  GUI.py | To see what happens when the user inputs a different file into the YAML file selector | The program with output an error stating the have selected the wrong file type | The program doesn’t let the user select any other file type then the one needed | N/A |
| 09 | ce09c90 | To see what happens when the user inputs a different file type into the TMAP file selector | The program will output an error stating the wrong file type has been selected | The program allows the user to select an YAML file without any error code. | Need to implement a function which detects the file type selected and outputs an error if the file type is wrong. |
| 10 | ce09c90 | To see what happens when the user inputs a different file type into the PGM file selector | The program will output an error stating the user has selected the wrong file type | The program doesn’t allow the user to select a different file type to the one specified | N/A |
| 11 | ce09c90 | To see if the program merges the three files ready to be edited | The program will open all three files and allow the user to start editing them | The program acted as expected | N/A |
| 12 | ce09c90 | To see if the program scales when the user inputs a scale factor | The map will scale to the scale factor inputted | The program acted as expected but the whole UI scales with the map and if the user inputs 1 the whole UI goes out of view and you cannot revert without restarting the program | Need to implement a scrolling option when the map exceeds the size of the window and stop the UI scaling with the map. |
| 13 | ce09c90 | To see what happens when the user inputs a different data type as the scale factor | The program will output an error sating the wrong data type has been inputted | The program doesn’t respond to the invalid data type | Need to add data verification to the input box |
| 14 | ce09c90 | To see if the program can add a new node when the correct inputs are used | The program should create a new node in the correct coordinates and with the correct name | The program creates a new node in the coordinates specified but doesn’t use the name stated in the insert node name box | Need to fix insert node name box |
| 15 | ce09c90 | To see if the program creates a new node when the incorrect data type is inputted into the boxes | The program should show an error specifying the user has inputted an incorrect data type | The program doesn’t react to the invalid data type | Need to add data validation to output an error and need to fix new node button at the bottom of UI |
| 16 | ce09c90 | To see if the program deletes an node when the correct inputs are entered by the user | The program should remove the node specified by the user | The program doesn’t react to the users commands and inputs | Need to fix delete a node button |
| 17 | ce09c90 | To see if you can add a path if the user inputs the correct inputs | The program should be able to create a path from one node to the other and show this via a black line | The program doesn’t react to the users inputs | Need to fix the add path button |
| 18 | ce09c90 | To see if the program deletes a path when the user inputs the correct inputs | The program should delete the path specified by the user and visualise this by removing the solid black line | The program doesn’t react to the users input | Need to fix the delete path button |
| 19 | ce09c90 | To see if the program saves the current project | The program should save the project in its corresponding files | The program acted as expected | N/A |
| 20 | ce09c90 | CLI.py | To see if the program can add a node when the user inputs the correct inputs | The program should ask the user for X and Y coordinates then create a node in the coordinates specified | The program askes the user for X and Y coordinates but it doesn’t create the node as it cannot find the tmap file | Need to re-enter the path to the tmap file so the program can access it. |
| 21 | ce09c90 |  |  |  |  |
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