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In this project, a Matlab app called Fuzzy Logic Designer is used to design the fuzzy logic system, it generates a .fis file that can be imported to the matlab code.

Instructions to run the program:

1. Extract the files, main.m and membership_Function.fis, into the same folder from the zipped file.
2. Open Matlab.
3. Go to the folder.
4. Run the code in main.m.
5. In the command window, enter a number as the x-coordinate of the starting location, then enter press.
6. Enter a number as the y-coordinate of the starting location, then press enter.
7. Enter a number as the x-coordinate of the destination location, then press enter.
8. Enter a number as the y-coordinate of the destination location, then press enter.
9. The program will run.
10. The program prints output to command window every 100ms
11. When the robot reaches the destination, the program prints the total time that the robot spent to run from the starting location to the destination.