Description

MazeSolver is a python script that finds the shortest path between Source and Destination in a binary maze of size (MxN). The algorithm is quite inefficient, especially in terms of space-complexity but it serves well in this case as it always returns the shortest path.

A binary maze is just a grid/matrix consisting of 0's and 1's. The 0's, in this case, represents inaccessible cells and 1's represent the accessible cells. This means that we are allowed to traverse on the grid only through cells having value of 1.

Sample [M=4]x[N=6] binary maze:

1 1 1 1 1 0

0 0 1 0 1 1

0 1 1 1 1 1

0 0 0 1 0 0

Steps to run this source code

Clone the project in your local storage and in your terminal execute the command.

Technologies Involve

Python 3.8.2

Flake8 linter for PEP8 standerds

VS Code

GIT bash

Conclusion

I've tried to implement all improvements suggested on the PEP 8 style guide to increase the readability of the code.

The function name in the program is direct that there is nothing to explain anything as the names of the functions are self-explanatory.