How to use V5 Maze Solver

Key

Maze Input Key:

<START_X> <START_Y> (x,y) Location of the start. (0,0) Is upper left and (width-1,height-1) is lower right

<END_X> <END_Y> (x,y) Location of the end

<HEIGHT.> Rows where each row has {0,1} integers space delimited

Maze Output Key:

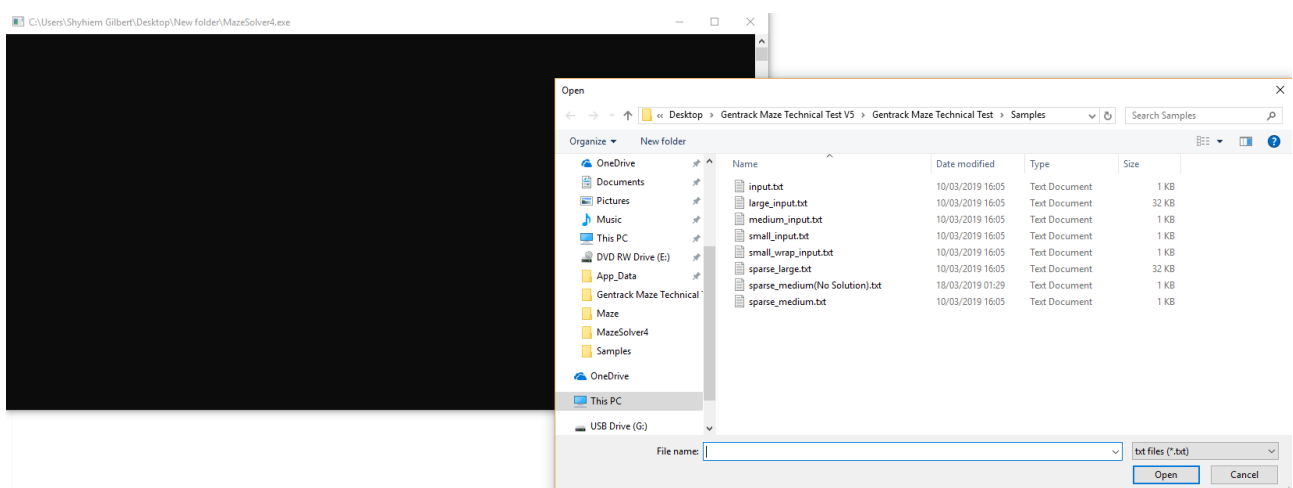Walls marked by ='#',

Passages marked by ' ',
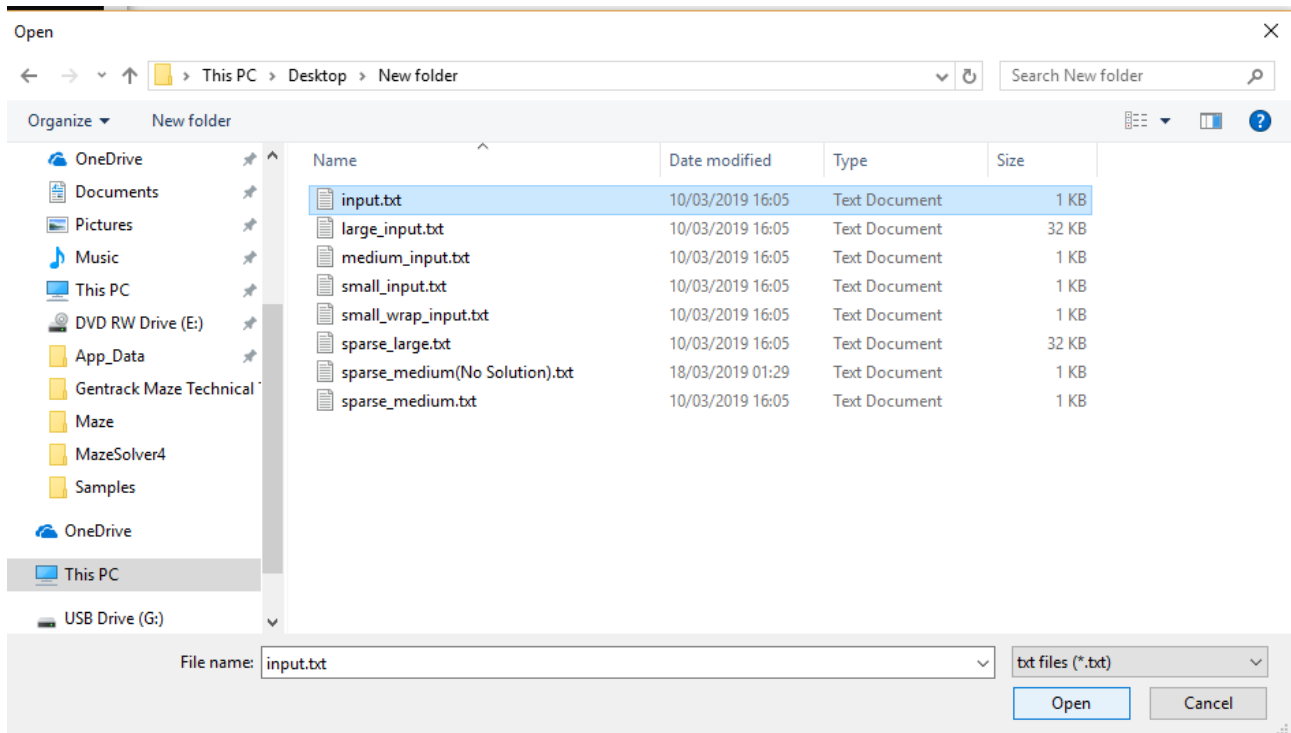
Path marked by 'X',

Start/End marked by 'S'/'E'

Start the program by double clicking on the .exe file.

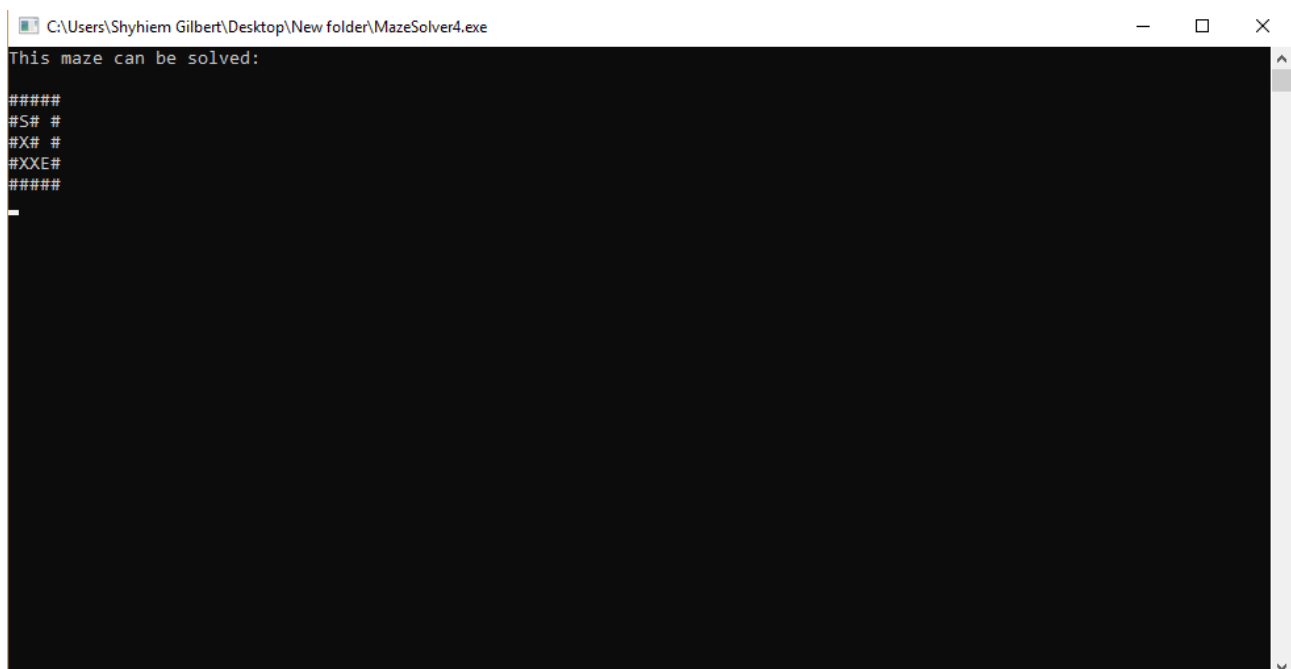|				
input.txt	10/03/2019 16:05	Text Document	1 KB
large_input.txt	10/03/2019 16:05	Text Document	32 KB
MazeSolver4.exe	18/03/2019 01:41	Application	11 KB
MazeSolver4.pdb	18/03/2019 01:41	Program Debug D...	26 KB
medium_input.txt	10/03/2019 16:05	Text Document	1 KB
small_input.txt	10/03/2019 16:05	Text Document	1 KB
small_wrap_input.txt	10/03/2019 16:05	Text Document	1 KB
sparse_large.txt	10/03/2019 16:05	Text Document	32 KB
sparse_medium(No Solution).txt	18/03/2019 01:29	Text Document	1 KB
sparse_medium.txt	10/03/2019 16:05	Text Document	1 KB

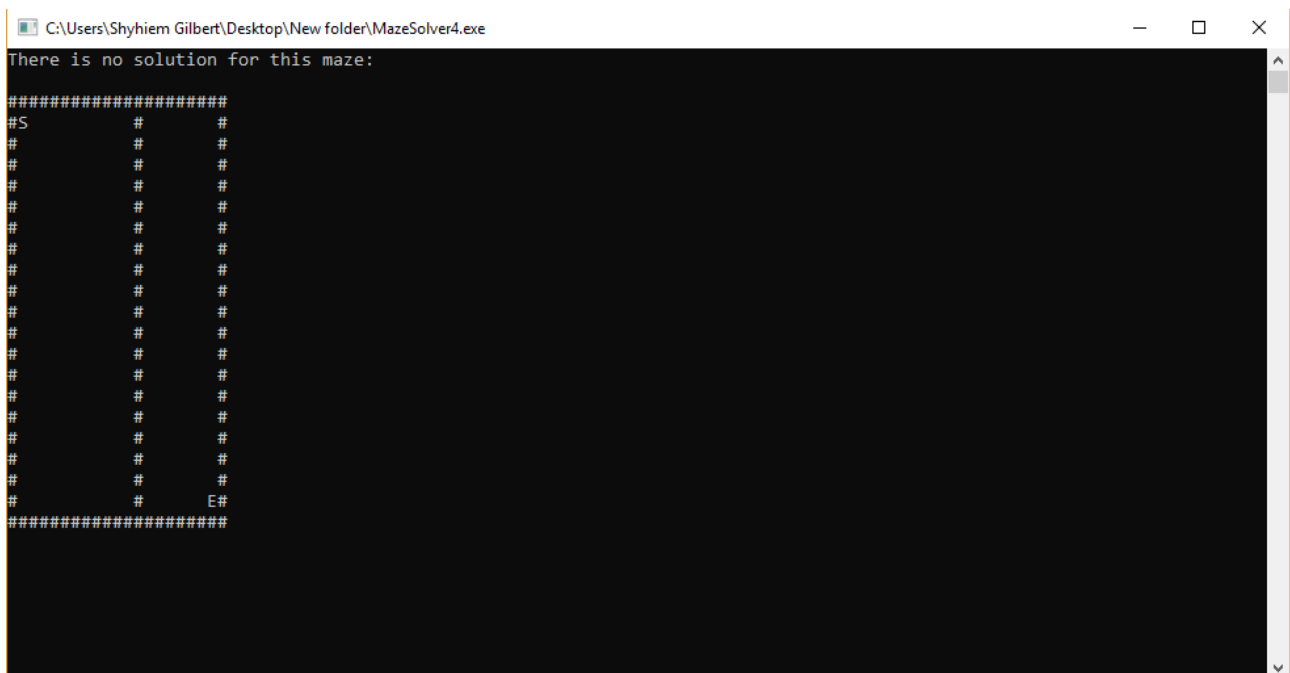You will be prompted to select .txt maze file.

Select which maze you will like to solve

If the maze has a solution the shortest path will be shown following the key above
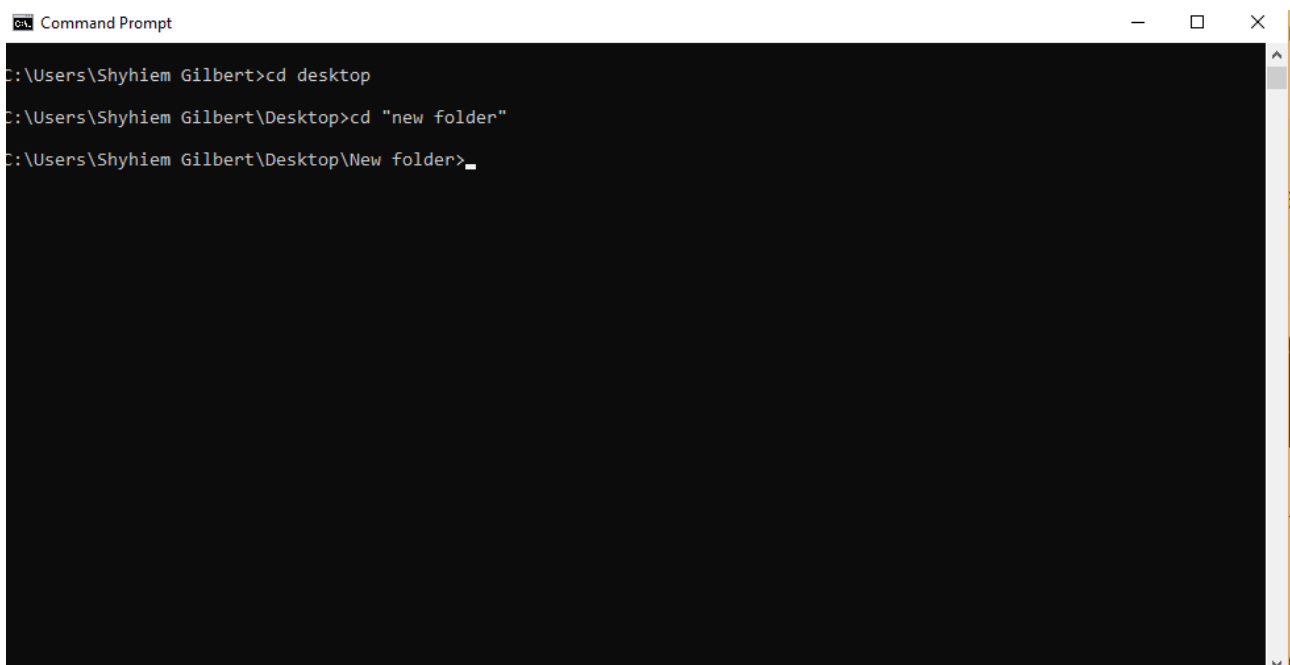
If the maze cannot be solved then this will be stated.

```
C:\Users\Shyhiem Gilbert\Desktop\New folder\MazeSolver4.exe                    —    □    ×
There is no solution for this maze:

#####################
#S         #        #
#          #        #
#          #        #
#          #        #
#          #        #
#          #        #
#          #        #
#          #        #
#          #        #
#          #        #
#          #        #
#          #        #
#          #        #
#          #        #
#          #        #
#          #        #
#          #        #
#          #      E#
#####################
```

You can also run the program from the **command window**.

Type in "cd" to change your directory followed by which folder you want to open. Follow the path on your computer system to find the program .exe file

```
Command Prompt                                                                 —    □    ×
C:\Users\Shyhiem Gilbert>cd desktop

C:\Users\Shyhiem Gilbert\Desktop>cd "new folder"

C:\Users\Shyhiem Gilbert\Desktop\New folder>_
```

Type in the program followed by which maze you want to solve "MazeSolver4.exe [MazeFile]" and this will run the program solving the maze.

```
C:\Users\Shyhiem Gilbert\Desktop\New folder>Mazesolver4.exe input.txt
This maze can be solved:

#####
#S# #
#X# #
#XXE#
#####
```