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User Manual

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CSCI 211
August 8, 2021

A. Downloading and Running the File

1. Download the “Knowledge-Based Agent.ipynb” file and “images” folder.
 - The .ipynb file is the executable file of the project while the images is a folder where the images is that will be later used in the GUI
 - Note: Please make sure that both .ipynb file is within the directory with images folder
2. If you have Jupyter Notebook just open a command line or bash command then run “jupyter notebook”
3. If you don’t have jupyter notebook please download it on this link: <https://jupyter.org/install>
4. Once you run the command, select the executable file “Knowledge-Based Agent.ipynb” then run each cell.
 - Note : Running each cell in order is a must
5. Once you reach the last cell that’s where the project start
 - Note: The last cell should be able to display this

```
Please enter mode:   
  
Welcome to the Cow World !  
Enter '1' for BFS  
Enter '2' for DFS  
Enter '3' for Show World  
Enter 'Exit' to exit
```

6. The last cell will ask you about the traversal mode that agent will perform in the environment
 - Input “1” or “bfs” to perform breadth-first search
 - Input “2” or “dfs” to perform depth-first search
 - Input “show” or “3” to display the world
 - Input “Exit” to end the process

7. Once mode is selected, the cell will display this :

```
Welcome to the Cow World !  
Enter '1' for BFS  
Enter '2' for DFS  
Enter '3' for Show World  
Enter 'Exit' to exit  
Please enter mode: 1
```

```
Enter State number between 1-5:
```

➤ Note the row and column of a state:

1. State 1 : (0,0)
2. State 2 : (0,1)
3. State 3 : (0,2)
4. State 4 : (0,3)
5. State 5 : (0,3)