**ENPM 661 PROJECT 1: 8 PUZZLE PROBLEM**

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* The code was written using python version 3.7(will work on older versions as well).
* The libraries used were -
  + numpy
  + collections
  + time
  + copy
* To run the file (if using terminal on ubuntu) type the following line in the terminal

python2.7 project1\_planning\_SaketSeshadri.py (for python ver 2.7)

python3 project1\_planning\_SaketSeshadri.py (for python ver 3.)

* Or you can run it using the Python IDLE or on other IDEs available. Although you might have to install numpy as it does not come as default.
* Upon running the file, you will be asked to provide input. Enter it as -
* Enter numbers (0-8) one by one with space following each number and once you have entered the first three numbers (first row of node) then press enter and move on to second row and enter numbers in the same way till you finish row 3. They should look like

1<space>2<space>3(press enter to go to new line)

4<space>5<space>6(press enter)

7<space>8<space>0(press enter for the last time)

* The output should look as shown in following page.
* It takes care of almost all nodes within a minute.
* The output files Nodes, nodePath and NodesInfo will be generated in the same location as that of the python file.



