Brute force documentation:

1. The coding has been done in python.
2. Packages included- numpy and copy.
3. The input must be given in row wise format for eg if the initial configurations is - the entry is done in the following way- 1,2,3,4,5,6,0,7,8 and there is comma after each element.
4. The outputs can be directly seen in the python console and 3 text files are generated as an outcome. **AllNodes.txt**- this text file displays all the explored and unexplored nodes generated for a given initial configuration. **AllNodesinfo.txt**- this text file displays all the explored and unexplored node’s information in the following sequence- [node id, node parent id, cost] here the cost is the number of effective movements required to get to the corresponding node from the initial node. **NodePath.txt**- this text file stores the nodes in the path of acquiring to the goal node.
5. The output format of the text files are as follows: **AllNodes.txt**- here the nodes are displayed column wise are specified in the class, for eg if the node is - the output will be like this- [1, 4, 0, 2, 5, 7, 3, 6, 8] , the same is for **NodePath.txt** and for **AllNodesinfo.txt** the nodes info are successively displayed, assuming 0 as the parent id of the initially entered node. The output is in this format-

and so on

\*\* For any further outputs like the list of visited nodes and visited node info, these can be seen in the python console, text file is not created since it was not asked for.

\*\* For unsolvable configurations it will generate 3 blank text files of the name mentioned previously.