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Programming Language used is Python-3.

The Code is Structured as follows:

The code consists of two functions:

1. Class: class initializes every node that is passed to it.
2. Usc() -> It implements the algorithm , first this function reads the input from the command line and based on the input it decides if the file consists of Heuristic folder.

After reading the file :

If it contains heuristic file, it will implement A\* Search and print the result.

If the file doesn’t contain heuristic file, it performs Uniform Cost search algorithm and prints the result.

Commands to excute:

Note: First move into the desired folder on to the terminal

Uniform Cost Search :

Execute command: python3 find\_route input1.txt source destination

A\* search:

Execute command: python3 find\_route input1.txt source destination h\_kassel.txt