- **Source File:**

  '180101093.pl'

- **Folder Test Cases Contains File Test Files, namely:**

  Mazedata1.pl, Generated Using: *$./genrateMaze 10 10 0.3 1 1 9 9*
  Mazedata2.pl, Generated Using: *$ ./generateMaze 4 4 0.1 1 2 3 3*
  Mazedata3.pl, Generated Using: *$ ./generateMaze 6 6 0.2 2 2 4 5*
  Mazedata4.pl, Generated Using: *$ ./generateMaze 7 7 0.2 1 2 4 5*

- **To Execute & Run Code:**

  Move source and test case file in the same folder.
  Open Command Prompt & type following commands

```
- $swipl
?- consult('180101093.pl').
```

Static Input:

For Test Case 1

```
?- consult('Mazedata1.pl').
?- shortest(11,99,Result).
```

For Testcase 2

```
?- consult('Mazedata2.pl').
?- shortest(6,15,Result).
```

Dynamic Input:

"`?- fault.`" : To Make A Node Faulty
"`?- valid.`" : To Make A Node Valid

Test Case 3

```
?- consult('Mazedata3.pl').
?- fault.
Enter node you want to make faulty:
|: 15
|: .
?- valid.
Enter node you want to make valid:
|: 3.
?- shortest_path(14,29,Result).
```

Test Case 4

```
?- consult('Mazedata4.pl').
?- fault.
Enter node you want to make faulty:
|: 10.
?- shortest(9,33,Result).
```

See Image Below For Better Clarity.