**Logic Agent**

Implemented the hybrid logic agent utilizing most of the individual project 3. (Implemented in wumpus\_kb.py and wumpus\_planners.py)

Added noise to the model by randomly taking a TurnLeft or TurnRight action 10 % of the time for every Forward action. (Implemented in wumpus\_agent.py)

Also made a few custom layouts to test the agent.

(cust1.lay and cust2.lay)

Cust2: 974 (Without noise)

(90-10 noise)

|  |  |
| --- | --- |
| 1 | -1030 |
| 2 | -1014 |
| 3 | 974 |
| 4 | -1025 |
| 5 | 974 |
| 6 | 974 |
| 7 | -1038 |
| 8 | -1030 |
| 9 | -1023 |
| 10 | -1018 |

Cust1: 946 (Without noise)

(90-10 noise)

|  |  |
| --- | --- |
| 1 | Stuck |
| 2 | Stuck (kills Wumpus) |
| 3 | Stuck |
| 4 | Stuck |
| 5 | Stuck (kills Wumpus) |
| 6 | Stuck (kills Wumpus) |
| 7 | Stuck |
| 8 | Stuck |
| 9 | Stuck (kills Wumpus) |
| 10 | -1032 |

wumpus\_4x4\_2: 960 (Without noise)

(90-10 noise)

|  |  |
| --- | --- |
| 1 | -1012 |
| 2 | 960 |
| 3 | -1016 |
| 4 | Stuck |
| 5 | Stuck |
| 6 | Stuck |
| 7 | -1018 |
| 8 | -1011 |
| 9 | 960 |
| 10 | -1024 |

wumpus\_4x4\_book: 983 (Without noise)

(90-10 noise)

|  |  |
| --- | --- |
| 1 | 983 |
| 2 | 983 |
| 3 | 983 |
| 4 | 983 |
| 5 | Stuck |
| 6 | Stuck |
| 7 | 983 |
| 8 | 983 |
| 9 | -1014 |
| 10 | Stuck |