Extra Credit Assignment

1. Check the value iteration explanation and implementation
2. Carefully read the explanation of MDP in the tutorial and the example. How different is the example from the grid navigation in the book and the video?

The one in the video uses Q-values to calculate all variables for all possible squares. The example of the bear uses an iterative algorithm to calculate all the values for the paths the bear could take.

1. Run the Python implementation and show a snapshot of the code running. Change some rewards values and see the differences.

A screenshot of a computer

Description automatically generatedThe first line represents the current state of the bear, and the rewards it collected from them. The second line represents how many iterations the MDP did to find the best path for the bear to take.

This represents the path the bear would take with the first bee and the goal being swapped; the number of iterations is much lower.

