**Assignment 01**

Submitted By: Aagnay Kariyal

Student ID: 8830232

# **Problem 01**

Problem Definition

States

Actions

Rewards

# **Problem 02**

# **Problem 03**

Initializing all the values and importing all the dependencies

A computer screen shot of a program code

Description automatically generated

Methods created to work to calculate and check the optimal value function along with the optimal policy A screenshot of a computer program

Description automatically generatedA screenshot of a computer program

Description automatically generated

Calculating the max value:

A computer screen shot of a program

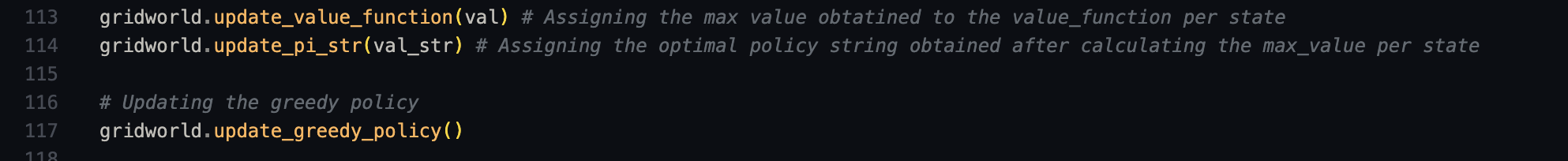
Description automatically generated

Performing the calculation by calling the gridworld class:

A screenshot of a computer

Description automatically generated

Updating values:



Printing out the results:

A screen shot of a computer code

Description automatically generated

Results:

Optimal Value Function:

A screenshot of a computer

Description automatically generated

Optimal Policy:

A screenshot of a computer program

Description automatically generated