

# Reinforcement Learning - Assignment-2

Due Date: 21 November 2022

Weightage: 20%

Dear Students:

Two Files are attached with this assignment.

1. Learner.py

2. World.py

Code has minor changes from the github code, these codes are tested using Python 3.9.

Save the World.py in the Script Folder (C:\\Python\\Scripts)

And after that run Learner.py you will be able to see the output. For understanding try to run

World.py separately as well and see how that code is working.

Tasks:

1. Change the discount value three or four times (select Random values) and explain, if it's

impacting the output then how it impacting the output, if it's not impacting the output,

why not? 5 Marks

2. Change the learning rate and explain, if it's impacting the output then how it impacting

the output, if it's not impacting the output, why not? 5 Marks

3. Explain purpose/logic of all the functions (Learner.py) with doc string  
5 Marks

4. Change the starting state of the agent/program and observe the output. Explain, if its impacting the output/learning or not. If its impacting then how if not then why?

5 Marks

Assignment submission should be in the form of PDF. You can comment/change the code and use those screenshots in PDF for reference.