# SEA400- Assignment 4

| Total Mark: | 10 marks |
| --- | --- |
| Submission file(s): | * logicPlan.docx * multiagent.py with your solution |

Please work in **groups** to complete this lab. This lab is worth 7% of the total course grade and will be evaluated through your written submission, as well as the lab demo. During the lab demo, group members are *randomly* selected to explain the submitted solution. Group members absent during the lab demo will lose the demo mark.

Please submit the submission file(s) through Blackboard. Only one person must submit for the group and only the last submission will be marked.

## **Part I: Logic**

1. In this assignment, you will be implementing and writing logical statements that allow a SAT solver to infer plans for Pacman.. You will be using code from

<https://inst.eecs.berkeley.edu/~cs188/sp23/projects/proj2/>

Download and unzip <https://inst.eecs.berkeley.edu/~cs188/sp23/assets/projects/logic.zip>

1. Open Anaconda Navigator, activate SEA400 environment and launch VS Code (or your editor). Open above unzipped folder. Use Anaconda terminal to run code, if needed.
2. Follow instructions to solve and test questions 1 to 3 from above link.

Add comments to your code to fully explain your method when it is not trivial. Clearly show where you have implemented each step of the instructions.

## **Part II: Run Tests**

Paste screenshots of the results of the following commands here:

### Milestone 1

python autograder.py -q q1

Result:

A screenshot of a computer

Description automatically generated

python autograder.py -q q2

Result:

A screenshot of a computer

Description automatically generated

### Final submission

python autograder.py -q q3

Result:

python submission\_autograder.py

Result:

## **Part III: Group work**

1. Complete this declaration by adding your names:

We, ------------ (mention your names), declare that the attached assignment is our own work in accordance with the Seneca Academic Policy. We have not copied any part of this assignment, manually or electronically, from any other source including web sites, unless specified as references. We have not distributed our work to other students.

1. Specify what each member has done towards the completion of this work:

|  | Name | Task(s) |
| --- | --- | --- |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |