| PS2 | ● Graded |
|---|--------------------|
| Student | |
| Chetan Hiremath | |
| Total Points | |
| 82 / 100 pts | |
| Question 1 | |
| (no title) | 17 / 20 pts |
| → + 20 pts Correct | |
| ✓ - 2 pts Performance Measure not a Measure | |
| → 1 pt b.obs = fully | |
| Question 2 | |
| (no title) | 10 / 10 pts |
| → + 10 pts Correct | |
| Question 3 | |
| (no title) | 4 / 10 pts |
| → + 10 pts Correct | |
| ● - 6 pts most parts are not readable | |
| Question 4 | |
| (no title) | 10 / 10 pts |
| → + 10 pts Correct | |
| Question 5 | |
| (no title) | 8 / 10 pts |
| → + 10 pts Correct | |
| → 2 pts Point adjustment | |

Question 6

(no title) 3 / 10 pts

- → + 10 pts Correct
- √ 5 pts Memory not done correctly
- ✓ 2 pts Doesn't quite work

Question 7

(no title) 30 / 30 pts

| Question assigned to the follow | ving page: <u>1</u> | | |
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| 2. | Agent t | Performance Measure | Engrangent | Pilvatos | Sensor's |
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| | Shapping for wed AI books on the internet | Low price losts of AII books and good deals | Shopping Sites | Keyboard and mouse. | Monter display access details |
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Question assigned to the following page: $\underline{2}$

| 2 | If there are 191 percepts and 1A1 actions, then |
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| Beach with the second s | the total number of SIR agents is IAIIII so |
| | the total number of SIR agents is All = |
| | 22=4 when IPI=2 (FNO Light? Light3) and IAI=2 |
| | (Chu Maro 3). |
| special collection in the contract security of the Collection contract on the Collection control contract on the Collection control co | 1P1= Le (F(Asclean), (B, Clean), (AsDirty), (B, Dirty)}) |
| Million The first and an interface of the control o | a file of the file |
| genhales the executive for the contract was figured in the making a second accomplete, more all parabolar included | So, the total number of SIR agents of the vacuum cleaner agent is IAIIPI = 34 - 8 th |
| antitiselisti ole kana sainen lähtäytäänäyän saan on ole allife tili jään ja tavainaysestalla asiinen ka | cleaner agent is latter = 3 = 8 In |
| granting on | |

Question assigned to the following page: $\underline{3}$

3. Sphex Wasp (aterpillar)

Pig a hay String a Prag (aterpillar)

Enter

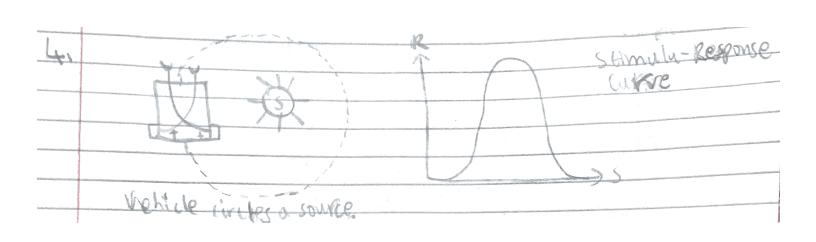
burrow saterpillar to burrow

Check prag caterpillar tay eggs

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is checked. Is rept in the burrow.

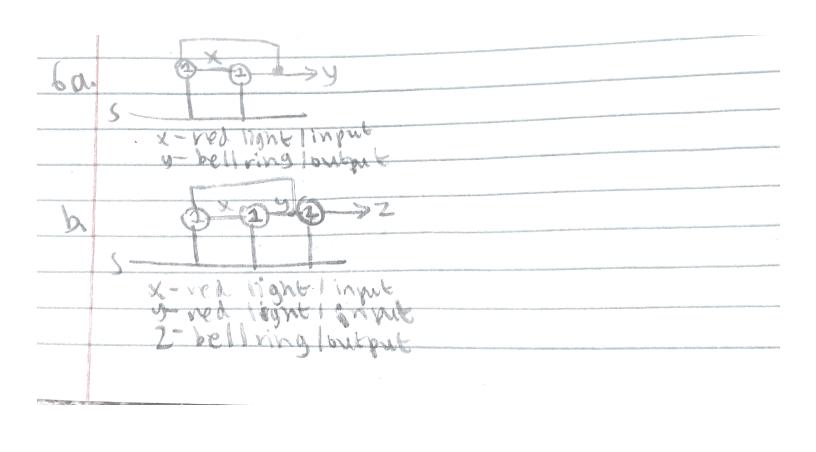
| Question assign | ed to the following _l | oage: <u>4</u> | | | |
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Question assigned to the following page: 5

| 5. | | | | in distribute delivera (a ci reducci de polonesso e sissocio del constante del constan | 63 | M | W | X | 12 | |
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| V | 15 [SKZ | 33 | | | | | | N V | | |
| - Ve | 45 CS-1 | F 27.7 | | | | | in Entire the Languages | | | |
| X | 7 400 | NF557] | | | n har sissaninya kinali ya ngapisisania 1955 wiliya andana ki | | | | deranguit Newporphi u protestanti di dischi di dischi di | |
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| 1000 | | | | | | | | | | |

| Question assigned to the following page: <u>6</u> | |
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Question assigned to the following page: $\overline{\mathbf{Z}}$

| 7. The Initial S | IR Table- | | Perfo | rmani | e table | |
|------------------|-----------|---|----------------|--|---------------|-------|
| Percept | [Action | | ASLAGE | BState | Argent Loubin | Slove |
| [A. Clean] | Right | P | RIVEY | Pilby | A | Las |
| [A, pirty] | SALK | | 0.76 | Clean | A | 2000 |
| IB Clean | Lock | | Elean | N. Vey | B | 2229 |
| [[B Dirty] | Suck | | Clear Clear | Clean | P. | 2000 |
| | * | | | The state of the s | | |



I have structured the program by having an environment and an agent to store the states of 2 locations (Clean- (0,0) and Dirty- (1,0)). Then, I have borrowed and modified the code from vacuum_world.ipynb file's simple reflex agent portion to make sure that the performances are recorded when the possible combinations are used for the dirt configurations and agent locations. The performances are added, and their average is calculated for the 8 possible configurations. The configurations are shown on the performance table. The "A" and "B" states are initial states to update the statuses of locations, and the agent chooses an action from the S/R table that has percepts. Then, the agent's location status is updated in the program to measure the performance. Its performance is increased by 1 for one clean location, and the average of the 8 possible configurations is 1999.25 when the configurations vacuum dirt and clean the certain location.