Name: Harsh Mandalia Roll No. 19110186

General instructions to run the code:

- 1. Each task has one or more than one python file that you need to run to see the animation.
- 2. Press "q" while "window" is selected to close the window. Or press ctrl+c while the terminal is selected to force quit.
- 3. Feel free to change the parameters in the __init__(self) function.
- 4. Task1.py involved kinematic approach where calculated q1 and q2 are directly animated, but task1_dynamics.py involves dynamics approach where tau1 and tau2 (torques) are calculated.
- 5. In task2.py, self.wall1 and self.wall2 are points of two ends of the wall. The wall is being shown in animation between those two points only but actually, the wall is taken as an infinite line for the 2R manipulator.
- 6. In task3.py self.x0 and self.y0 are the mean position of the spring(bot).
- 7. In task4.py in line 47 (mybot.trace(5)) change the value 5 to something else (integer) to change the speed at with the simulation draws the workspace.

Notes are on the next page.











