General Instruction

- This assignment is a team project.
- Submit your work in the Dropbox folder via BeachBoard (Not email or in class).
- 1. (40 points) Design and implement a cleaning robot program.
 - i. Use Python 3.7. (Python 2.7 is not allowed.)
 - ii. Find the Python package, VacuumRobot.zip.
 - iii. You are asked to implement the clean method of the Robot class in the robot.py.
 - iv. Follow the specification
 - A Map instance has 19×19 locations, and each location is dirty (1) or not (0).
 - The robot can change the status of a location (from dirty (1) to clean (0)) when it is located on the location.
 - The robot should begin the cleaning job from [0,0] location.
 - The robot has up to 8 adjacent locations, i.e., Top-left, Top-middle, Top-right, Left, Right, Bottom-left, Bottom-middle, Bottom-right.
 - The robot can see only adjacent locations' cleaning condition.
 - The robot can move to the one of the adjacent locations of the current location.
 - The robot should record its locations in the self.track list.
 - The robot should clean all of the dirty locations.
 - The length of the self.track list should be definitely less than 19×19 .
 - v. Submit your robot.py.