Planning 4
(Robot Operating System)

Task1:

Subscribe to the topic /local_plan and give any goals to the tb3 simulation and determine whether the path is straight or curved to the right or the left . If the path is straight publish a string message "The path is straight", else if the path is curved to the right publish a string message "The robot is turning to the right with a curvature <c>" where c is the curvature of the path, else if the path is curved to the left publish a string message "The robot is turning to the left with a curvature <c>" where c is the curvature of the path.

Hint: functions.py contains the supporting functions to the task.
References: https://en.wikipedia.org/wiki/Menger_curvature

Instructors repo Link:

1- https://github.com/ahmedgharieb1
2- https://github.com/M-abdeen

Material repo :
https://github.com/ahmedgharieb1/ITI_LSV_ROS2