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Bug_base Algorithm
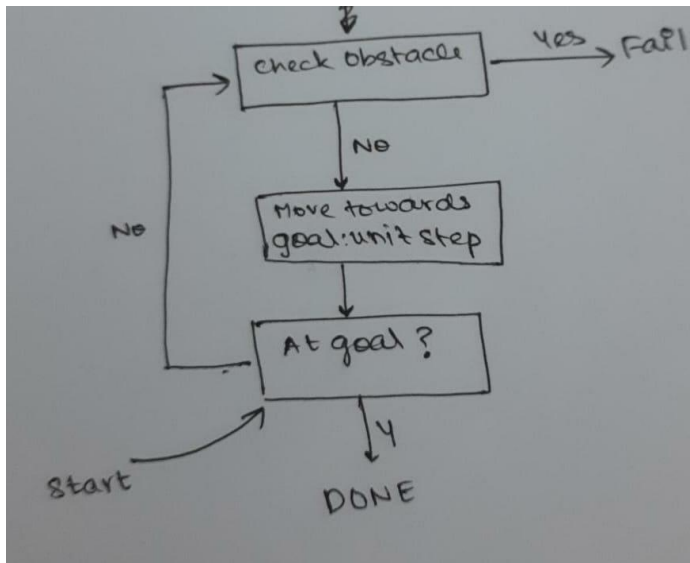
Path:
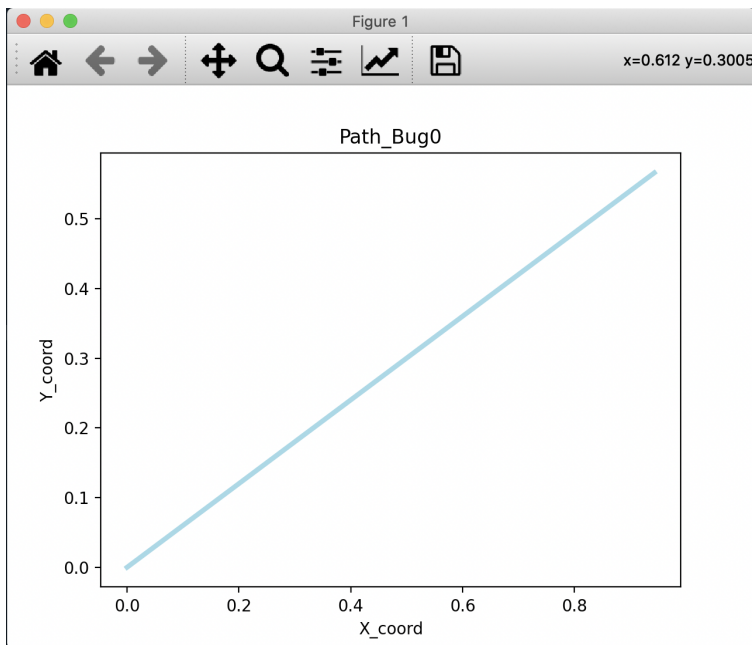
Output: "Failed", on reaching obstacle

Bug 1 Algorithm

Figure 1

x=4.699 y=0.109

Bug1: Trajectory

Figure 1

Distance to Obstacle
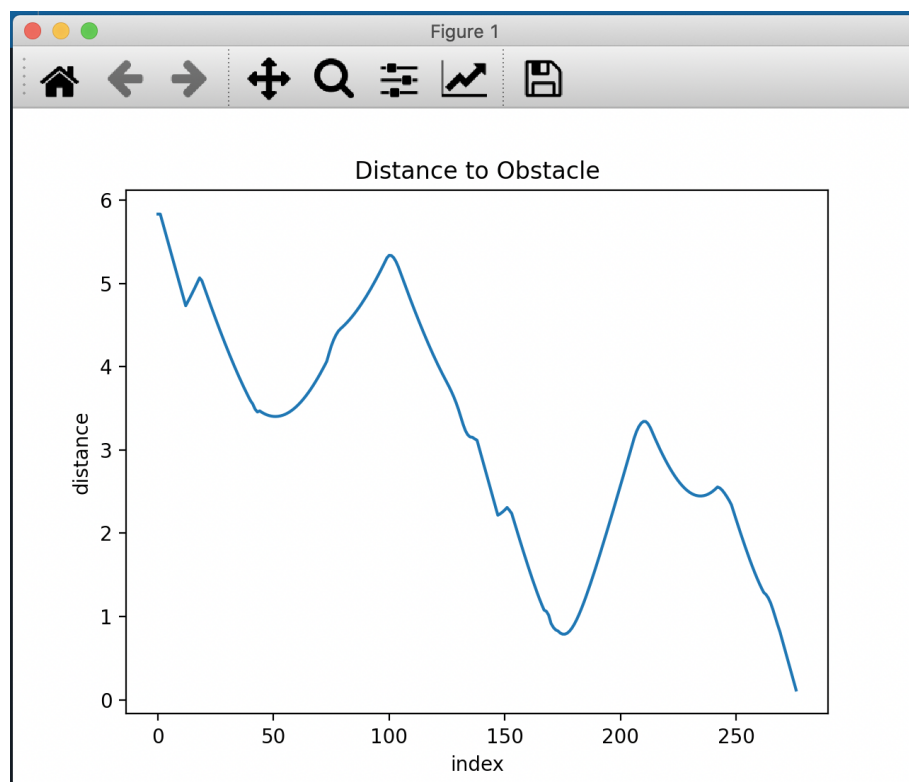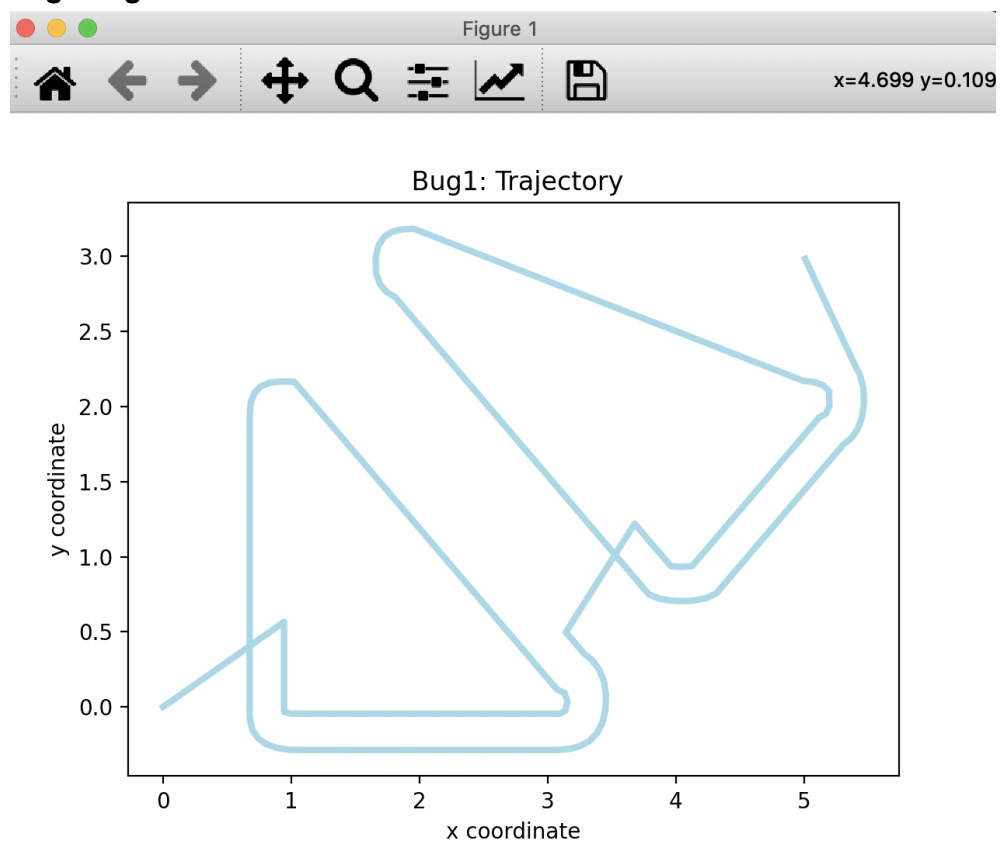
In Bug 1, on encountering an obstacle, we move around the obstacle finding the point closest to the goal and move to this point before proceeding towards the goal. On the other hand, in Bug0 this step gets simplified; we just print "failure " on encountering any obstacle.