Niloy Ahsan

21101255

Quiz-3

(a) If the ~~robot~~ robot has no knowledge of the ~~no~~ ~~an~~ environment then it will use the bug-based algorithm. B

In bug~~b~~-based ~~an~~ algorithm ~~the~~ the robot know ~~has~~ the distance and the goal. So, the robot will move straight when it see the goal. If any obstacles come in the path then the robot will move b by the side of the object to reach the ~~good~~ goal in a ~~shor~~ shortest distance. Then the robot will move again in a straight line when ~~the o~~ crossed the obstacle.

(b) The simple OG Mapping Algorithm is a algorithm for Mapping and Exploration. We use this mapping model to construct the sensor model of a robot. Here, the robot will first initialize a ~~grid~~ ~~Grid~~ ~~Oi~~ ~~Grid~~ grid. ~~as empty~~ Then it will update the grid as empty or occupied. ~~then~~ it will pick a next move and again update the grid. This process will work in a loop.

Here, we have three parts in the cell and those are occupied, ~~emp~~ empty and unknown

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