

Name of task: use another ROS robot with SLAM approach to create and save a map.

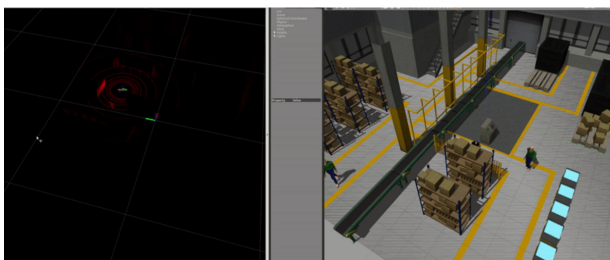
Path Name: Robot and Artificial Intelligence (Smart Methods)

Trainee name: Nayfa masaud

I used this to get the code

<https://github.com/Amg0z/Task-4>

Some pictures to illustrate the task



👍 To do this task I was download

Ubuntu 64-bit 18.04.  
ROS Melodic. ROS Installation

👍 **ROS Package**

```
sudo apt-get install ros-melodic-hector-trajectory-server ros-melodic-slam-  
mapping ros-melodic-navigation
```

👍 **Build**  
**Clone repository:**

```
cd ~/catkin_ws/src  
git clone https://github.com/wh200720041/warehouse_navigation.git  
cd ..  
catkin_make  
source ~/catkin_ws/devel/setup.bash
```

👍 **Launch ROS**

```
roslaunch warehouse_simulation warehouse_simulation.launch
```

👍 **Robot Control**

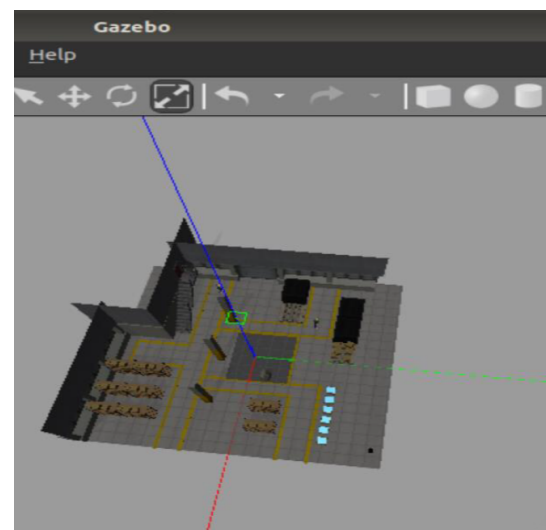
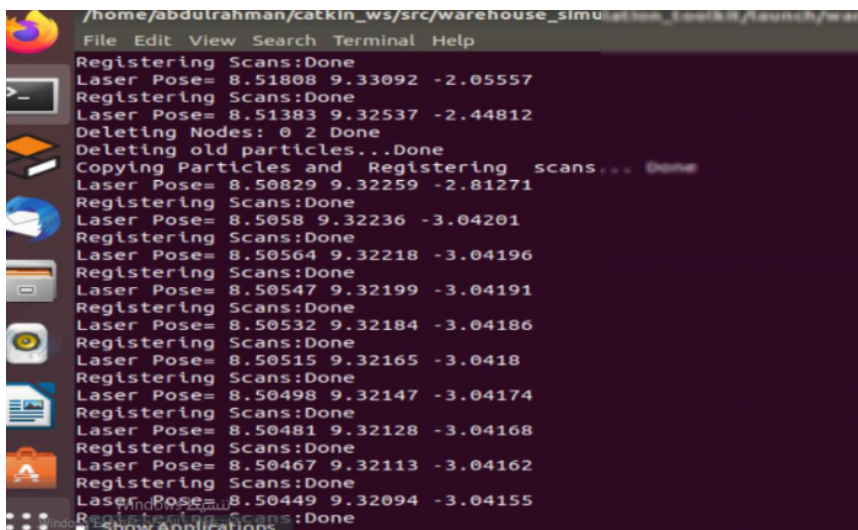
You can use keyboard (arrow keys) to manually control the robot (select cmd window first)

👍 **Autonomous Navigation**

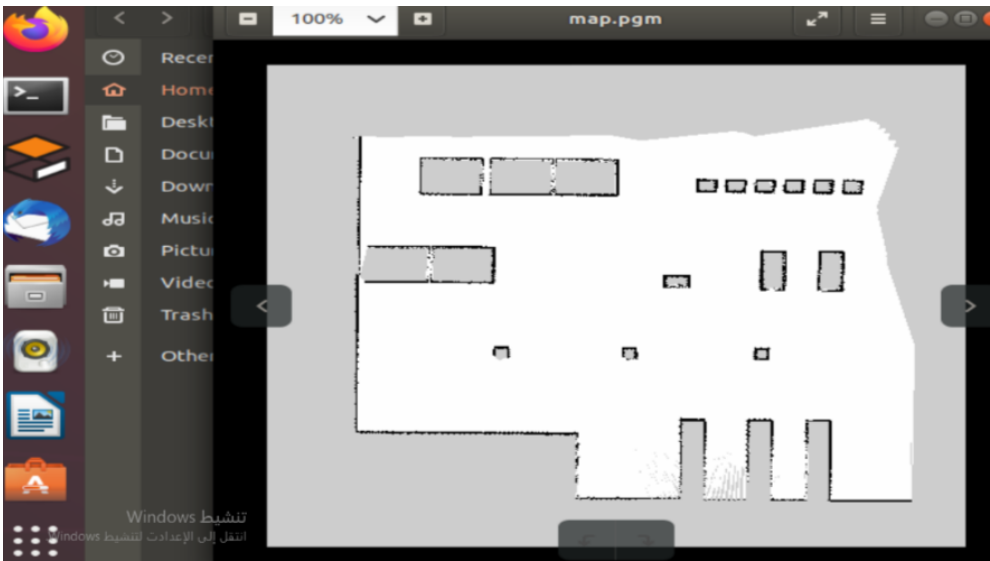
You may set target points in RVIZ and the robot will navigate to the location in gazebo.

1. click 2d nav goal button on rviz
2. click any points you want on the map

To connect the robot Environment with new robot



The map



The picture of the map

