Team leader:

Ahmed Mohamed aboelfetouh salem

Id\_team\_leader:

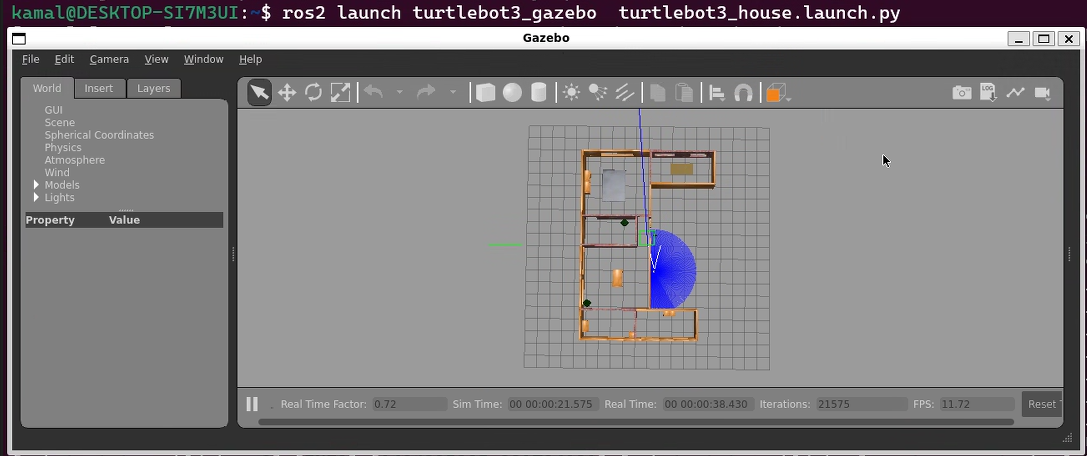
20191700061

• Team members

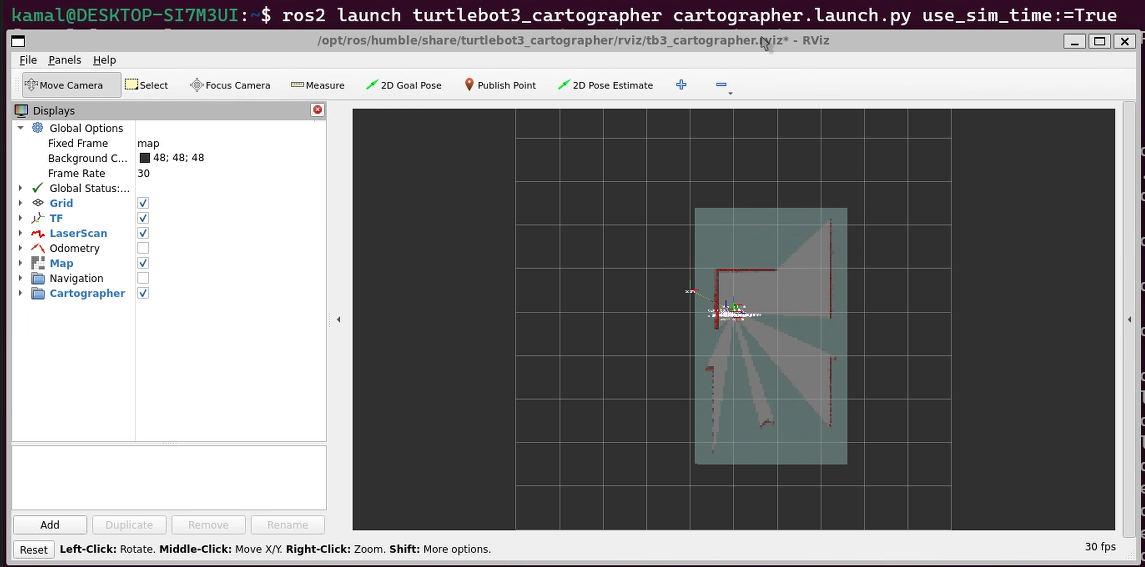
|  |  |
| --- | --- |
| 20191700054 | Ahmed mabrouk fekry abdelfattah |
| 20191700055 | Ahmed magdy ahmed ali |
| 20191700061 | Ahmed Mohamed aboelfetouh salem |
| 20191700181 | Bassam Mohamed kamal hassan |
| 20191700459 | Kamal salah kamal aboelkheir |

• Map creation

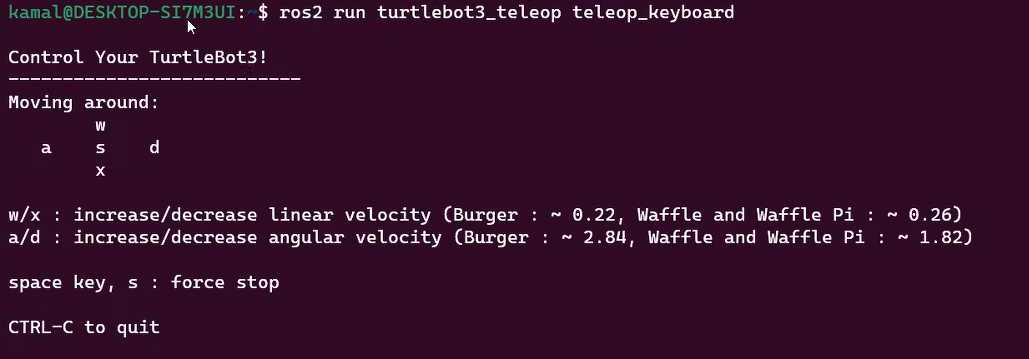
1-Open house world



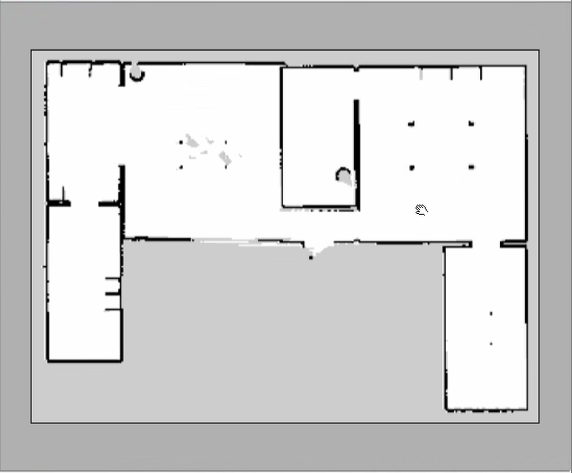
2-Open Rviz2



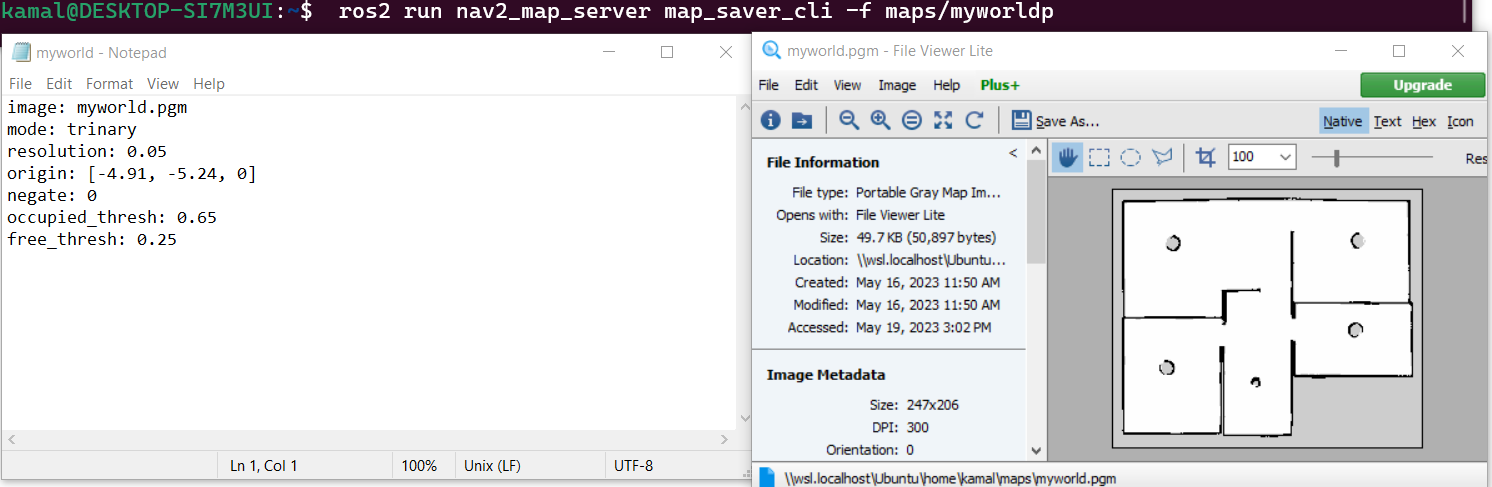
3- Including keyboard control



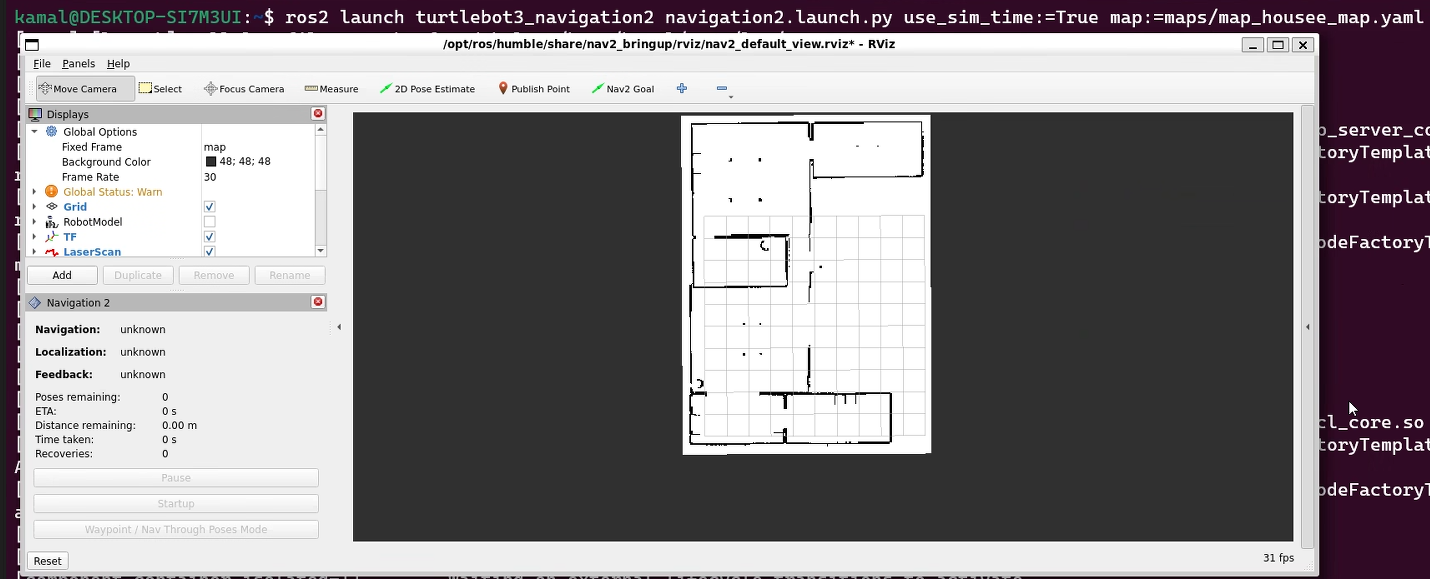
4- Building the map

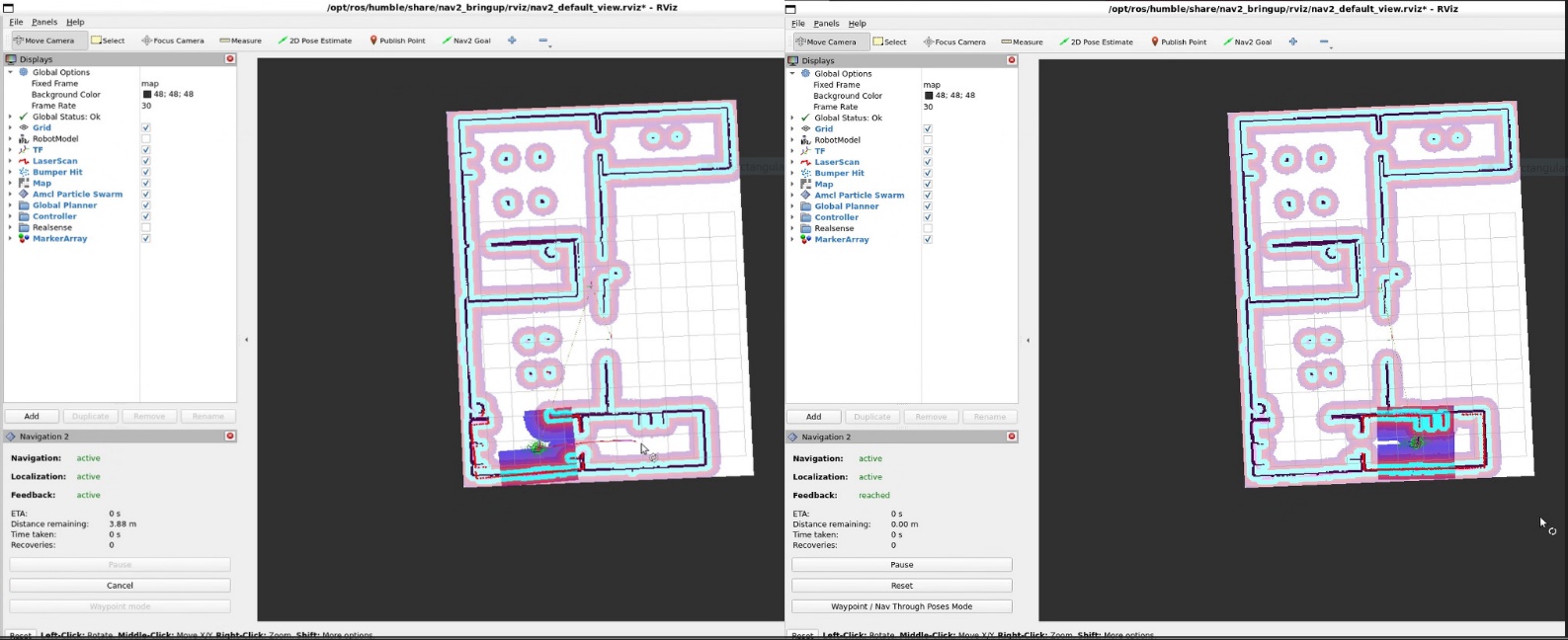
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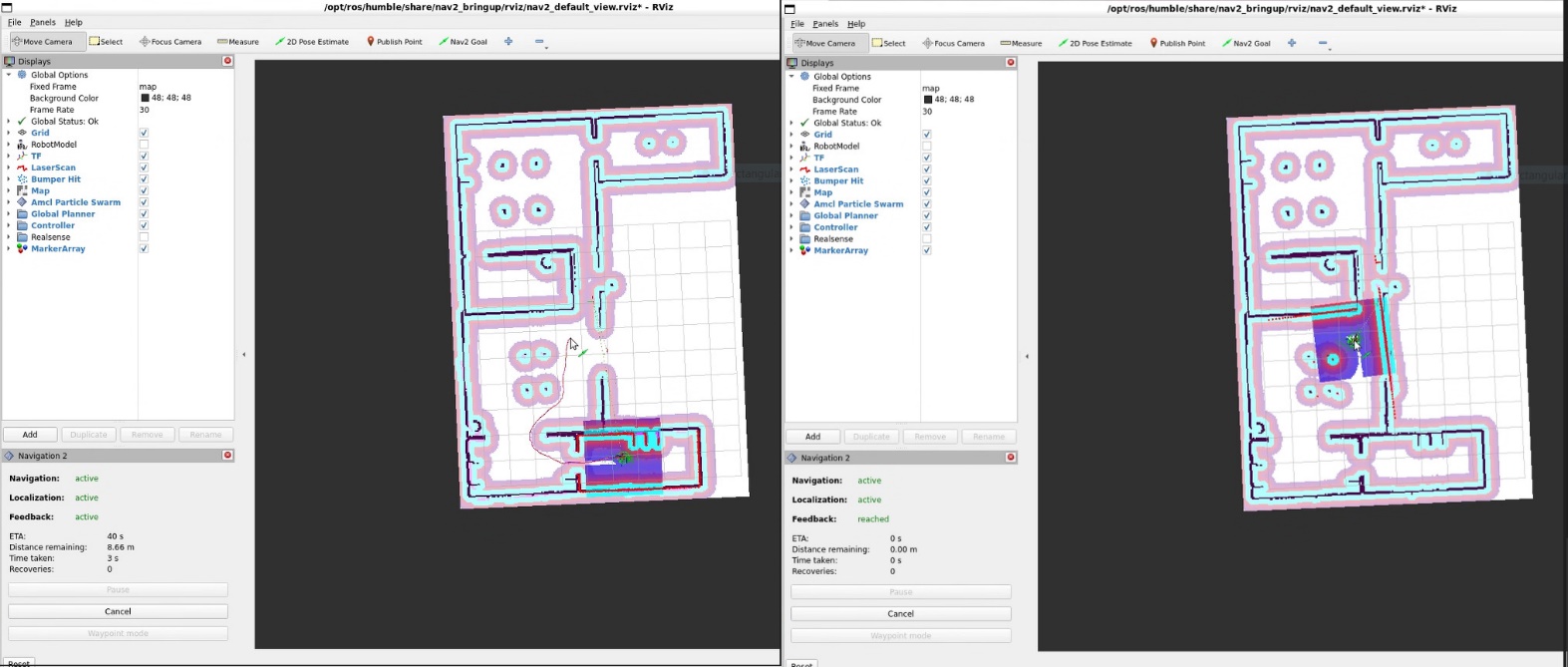
**To save this map**

****

**• Navigation inside the house world**

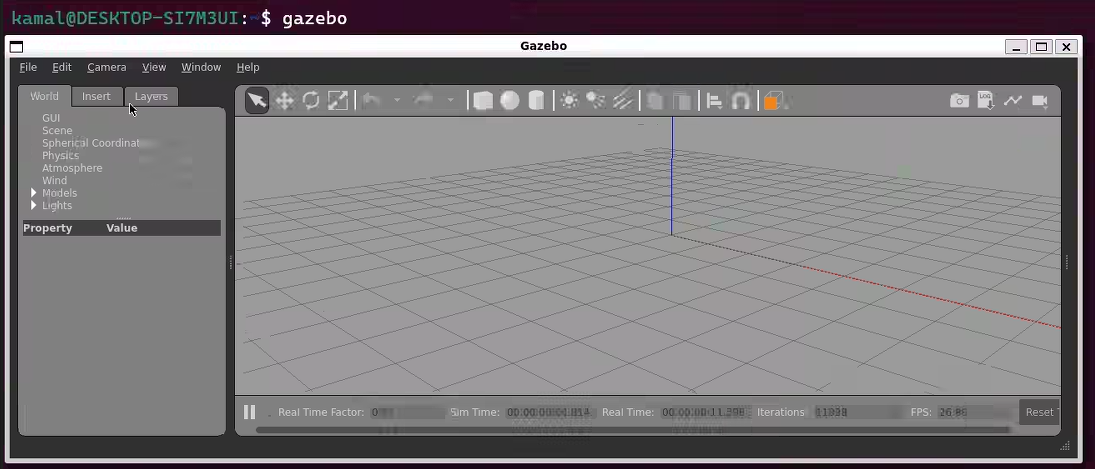
****

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**Model creation •**

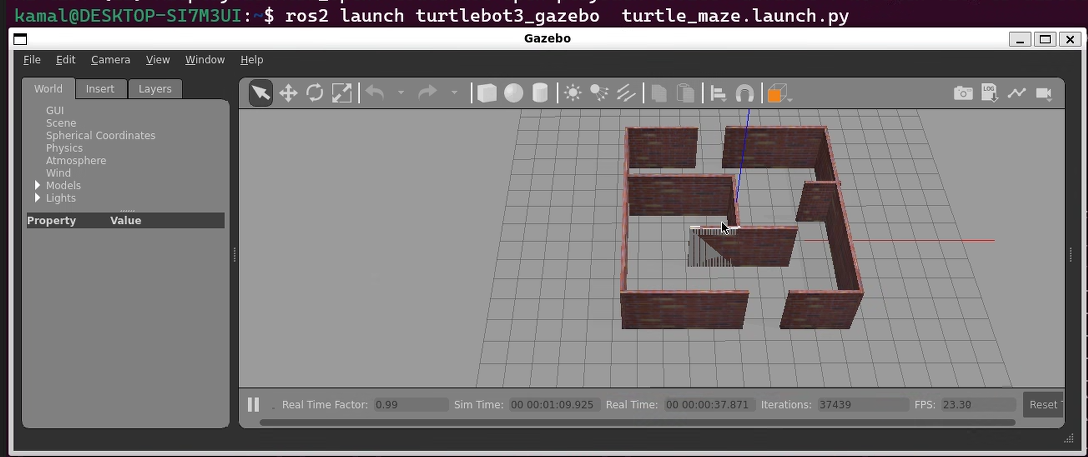
1-Open gazebo

****

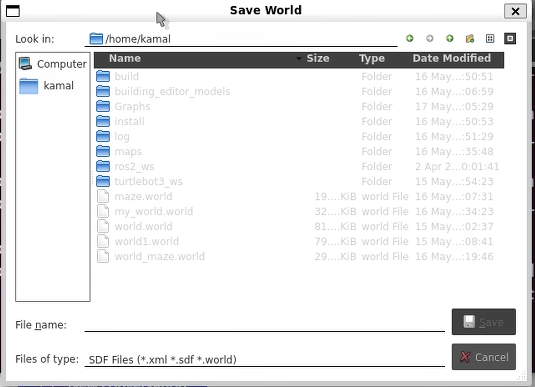
2- create our model

****

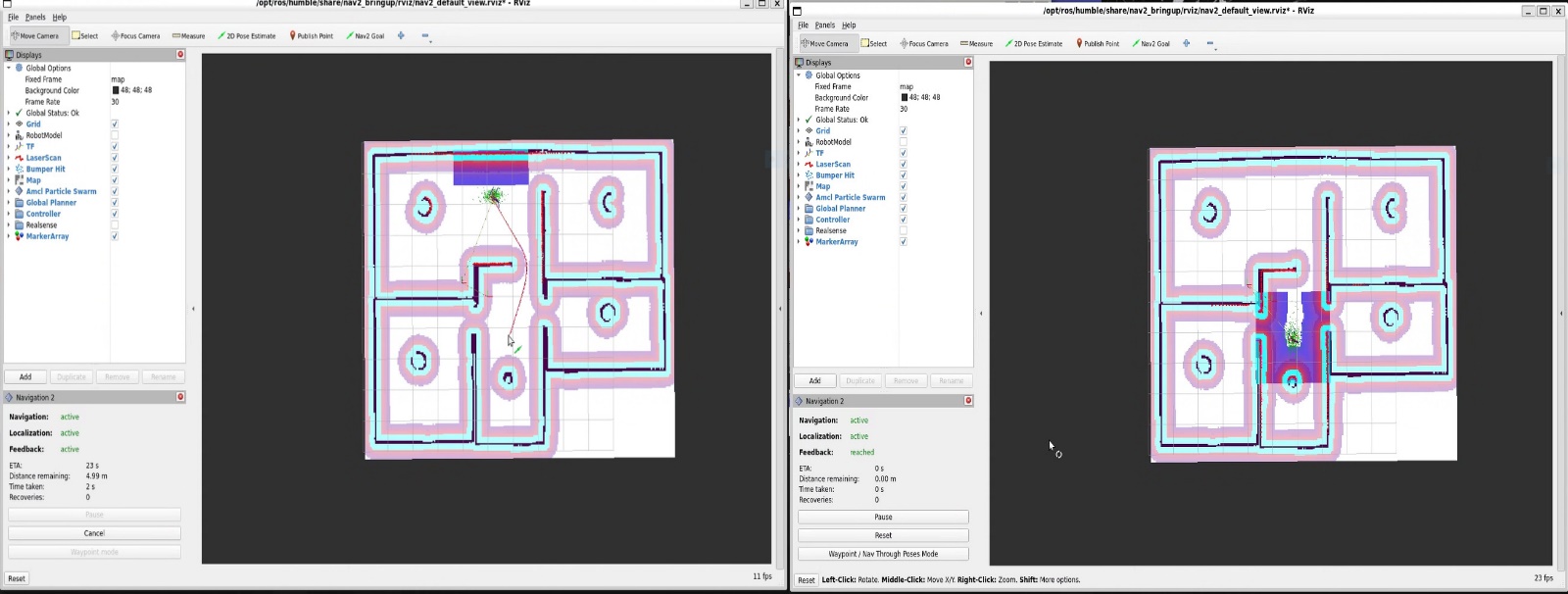
2-create maze model

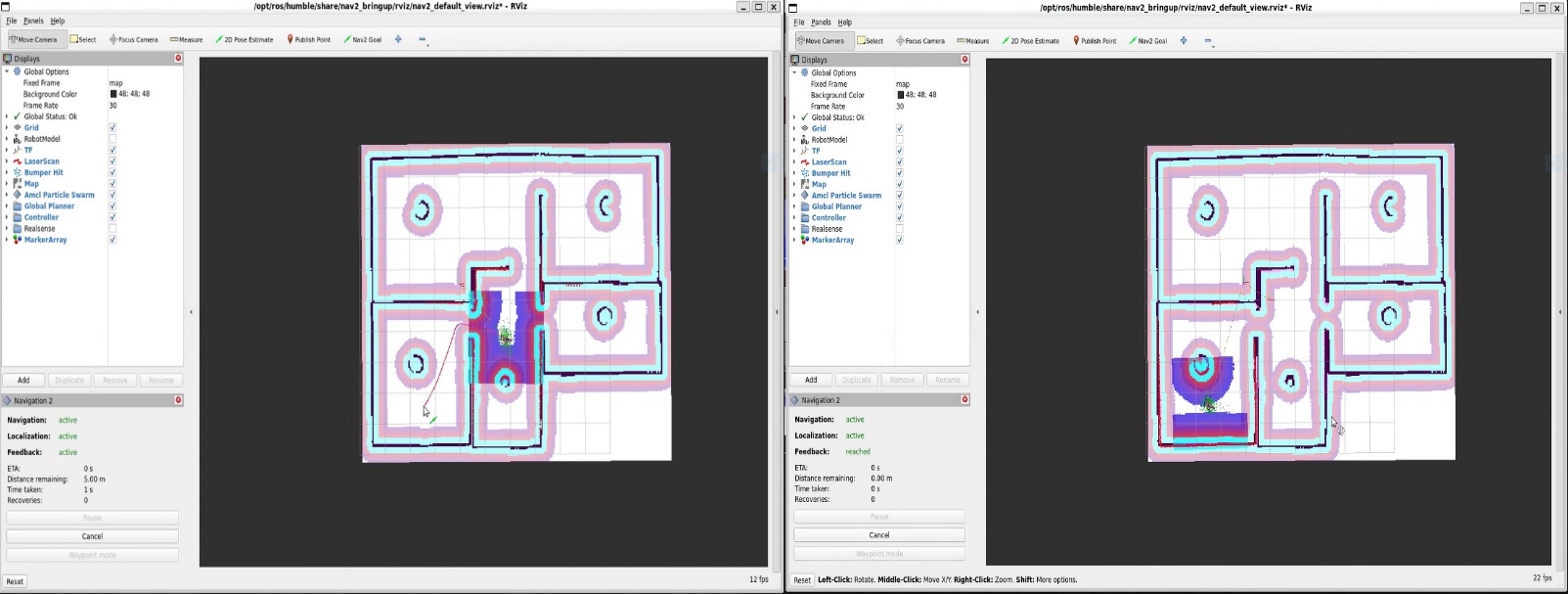
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3- Save all previous models with extension ".wold"

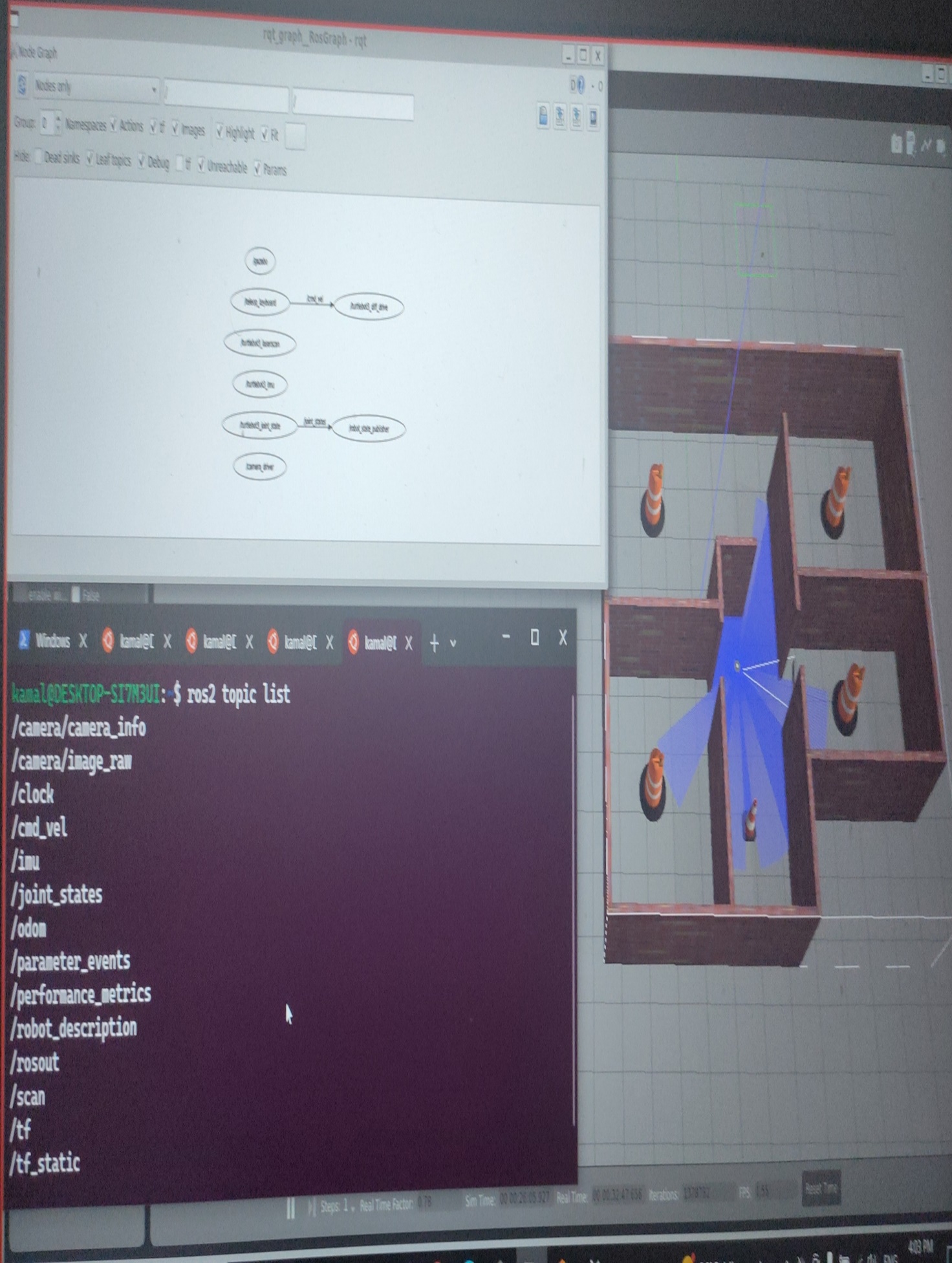


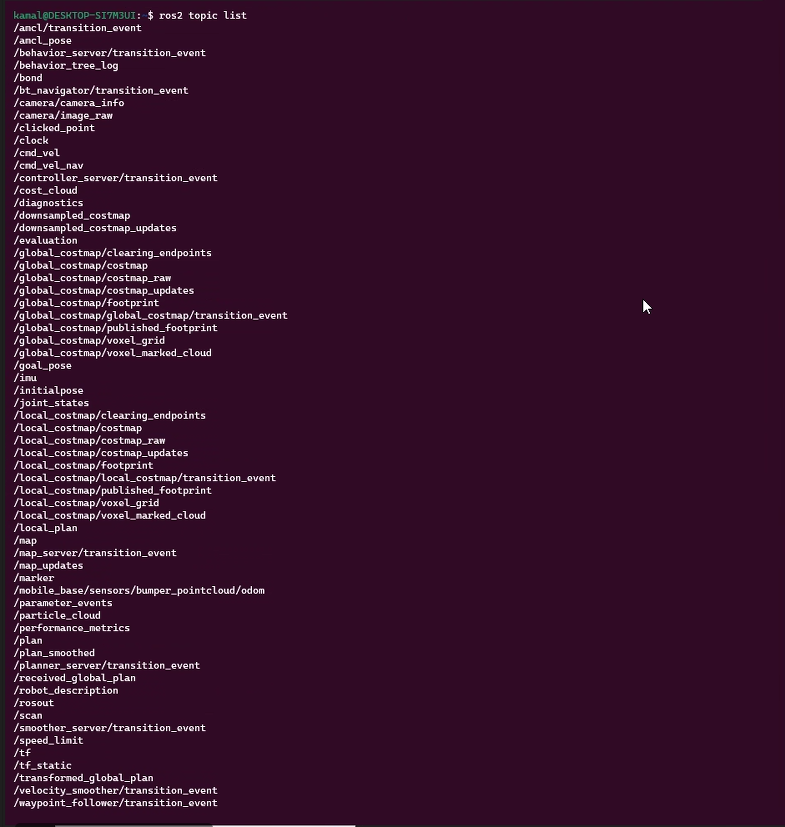
**Navigation in my world•**

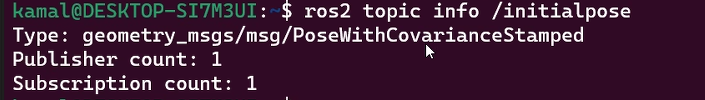


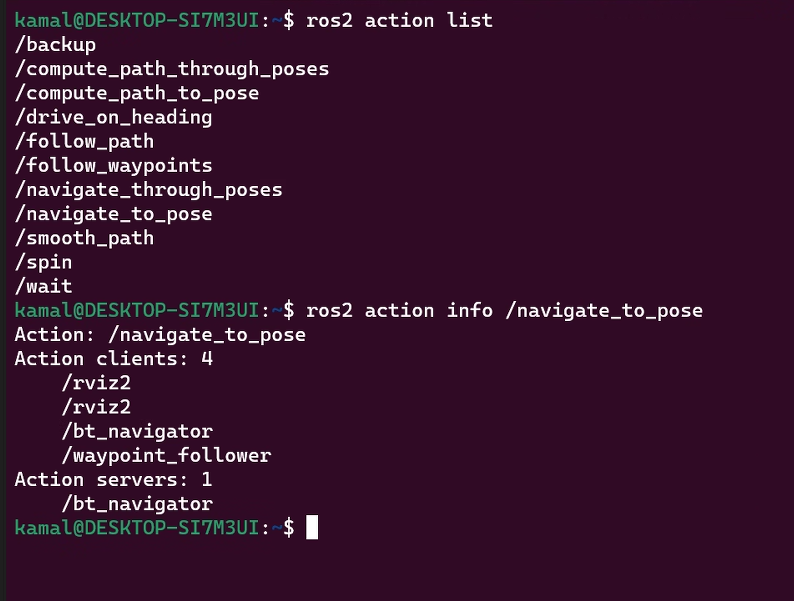
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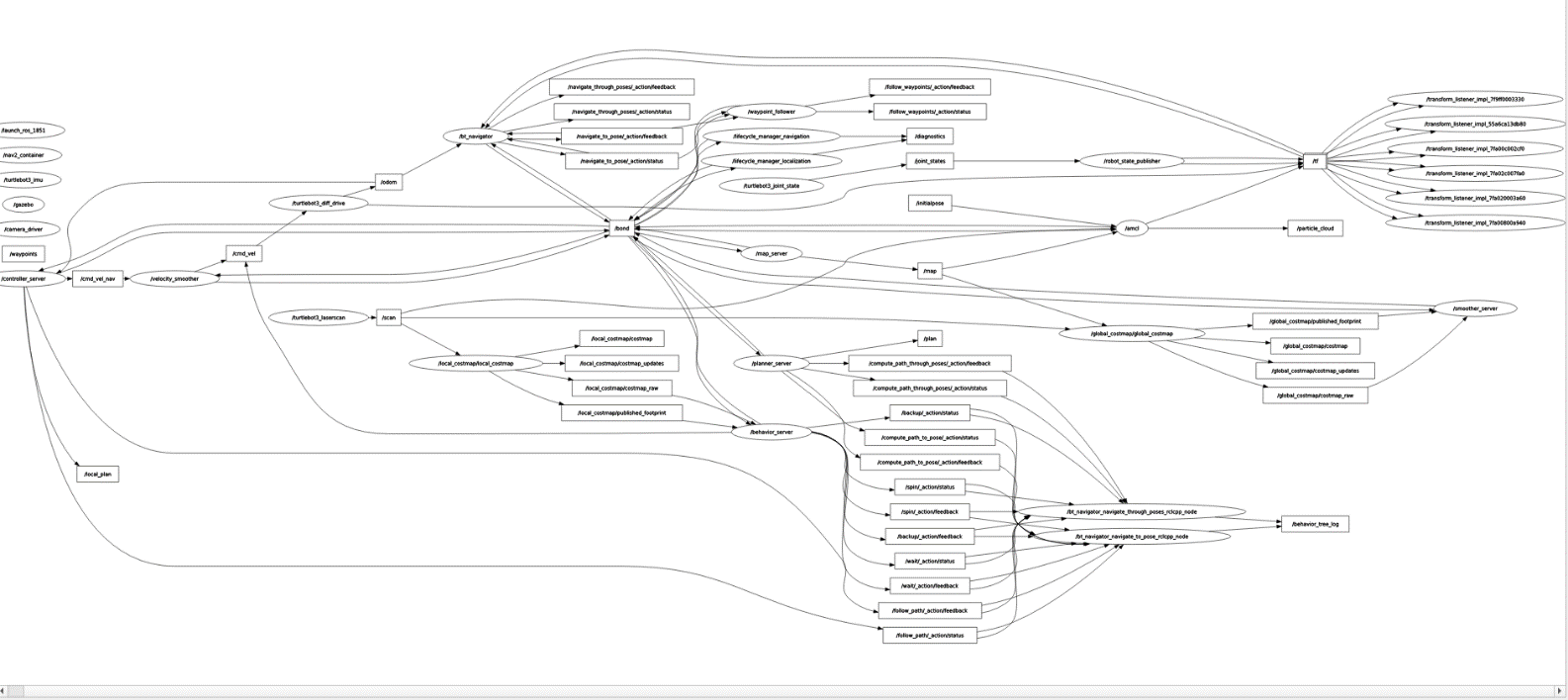
**Explore topics and goals when navigating**

****

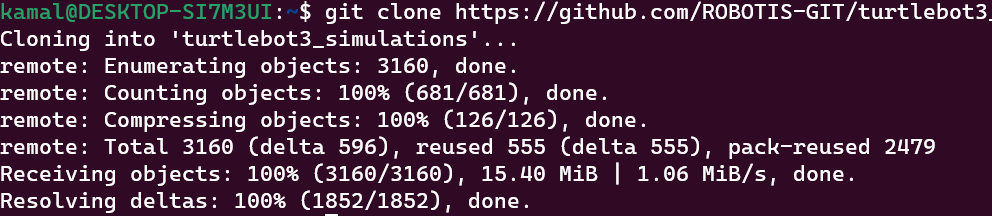
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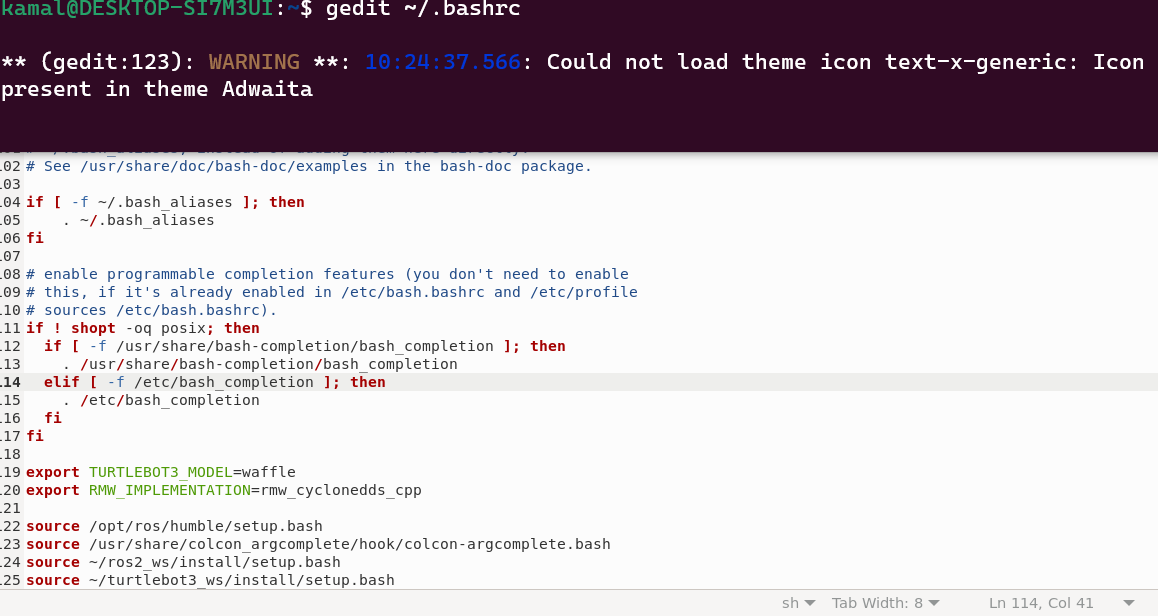
****

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* **To get clone from git gub**



* **To update at bashrc**

****

* **To change the mode of the node**

**chmod +x turtlebot3\_node.launch.py**

**Thank you ♡**