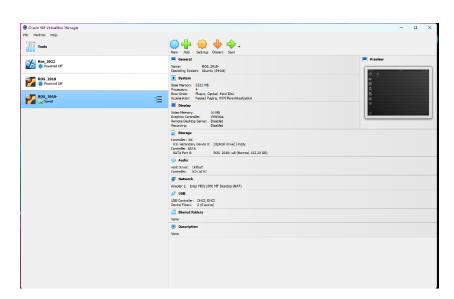
1/Downloading and Installing Oracle VM VirtualBox

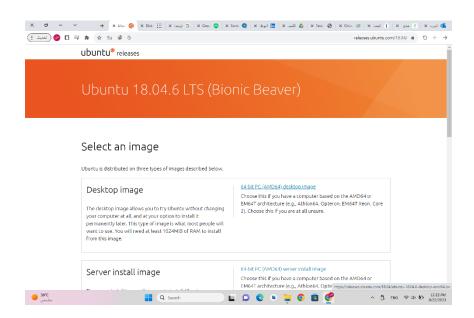




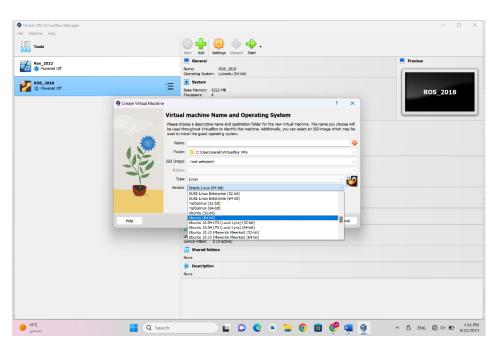
2/Downloading and Installing Ubuntu 18

my Computer are:

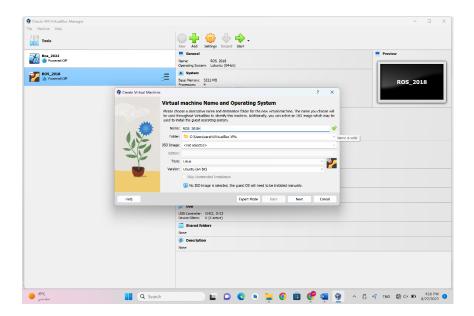
- Windows 11- 64 bit
- Intel Core i5
- RAM capacity with 8 GB



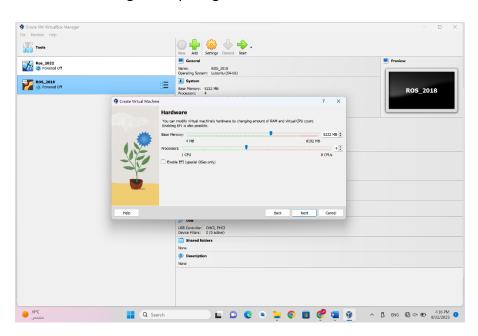
I chosed Ubuntu 64 bit

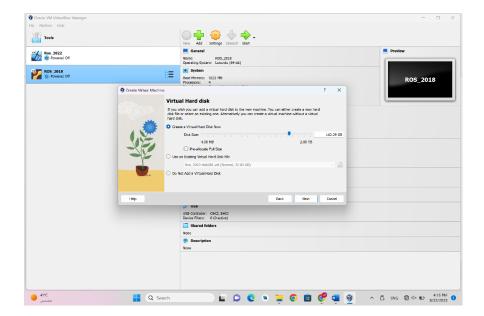


Writing name of the virtual machine

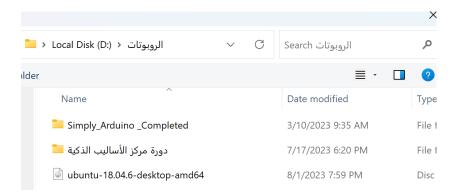


I increased setting until up range

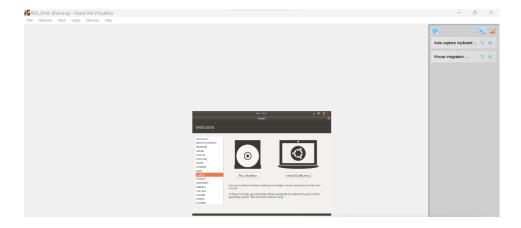


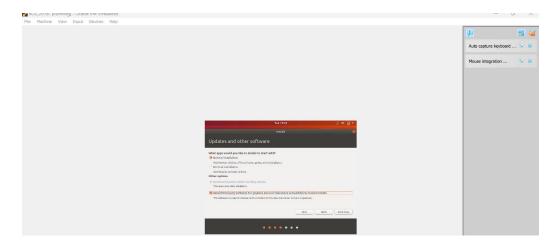


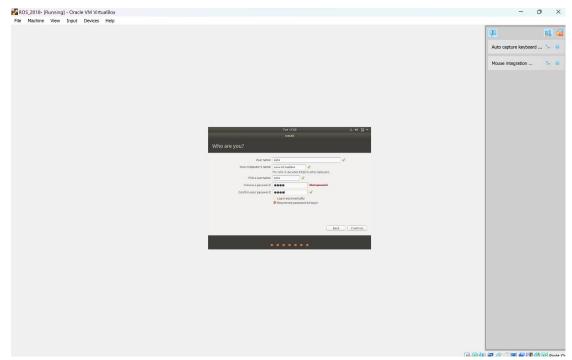
Pressing on add then choosing ubuntu 18 file

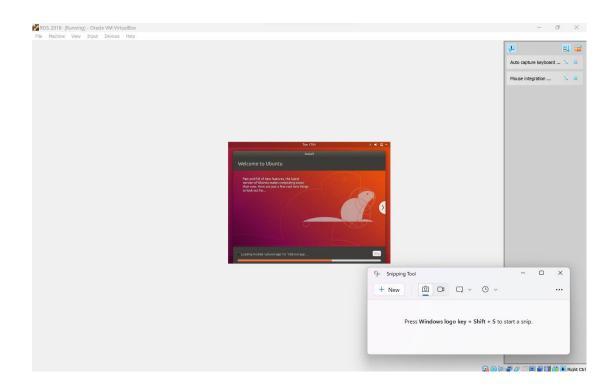


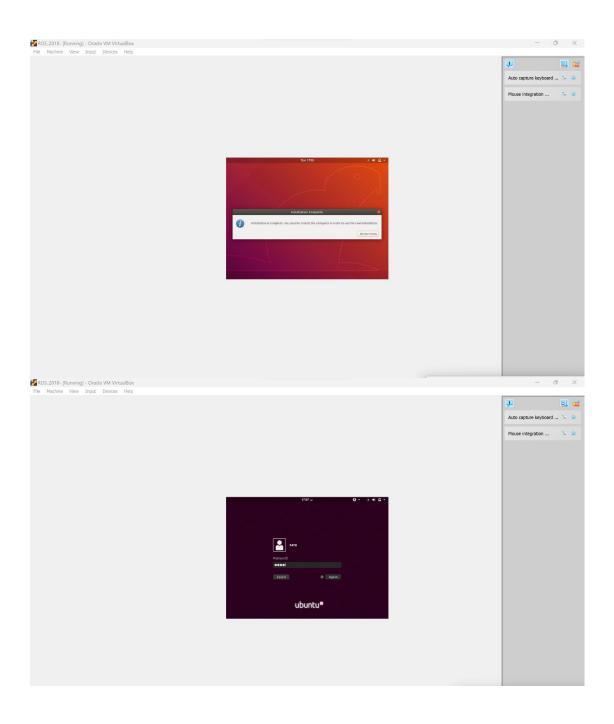
I completed installation

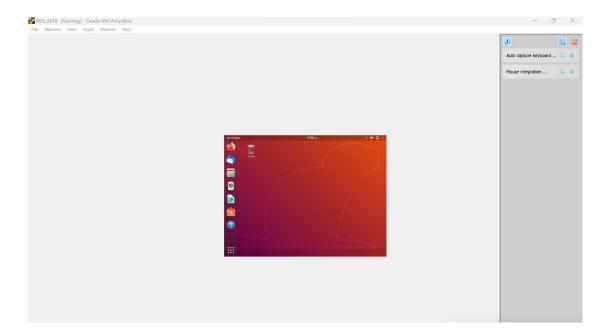






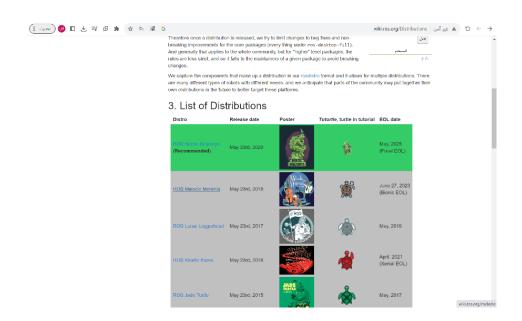




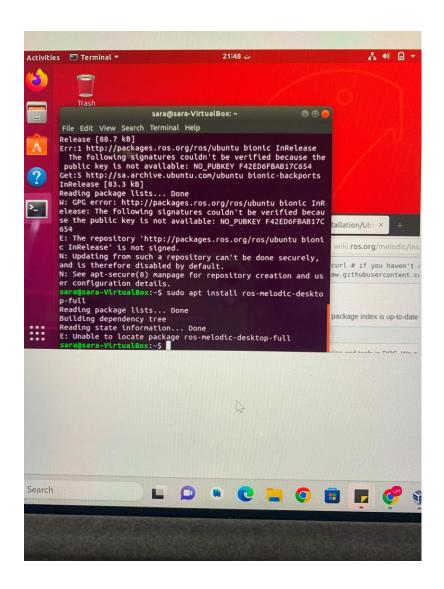


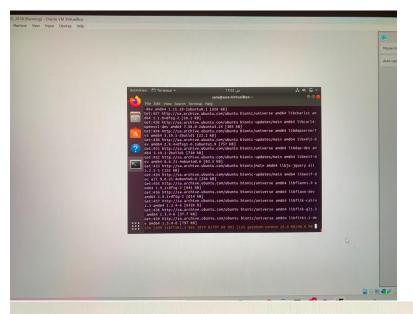
3/ Installation ROS

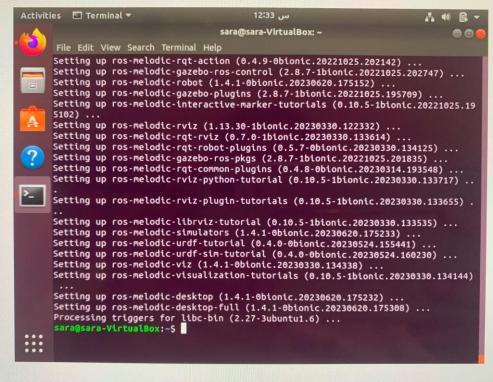
I installed melodic version that with ubunto 18

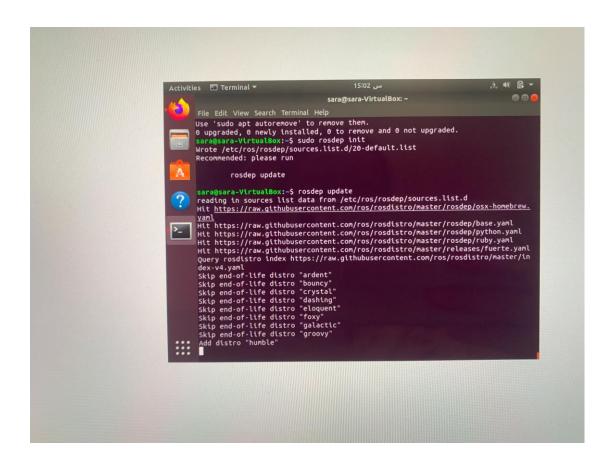


Opening Terminal and writting installation instructions

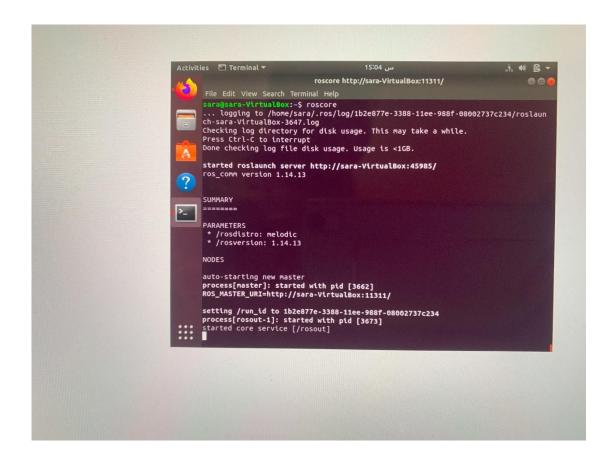








To sure installation, I wrote (roscore) instruction



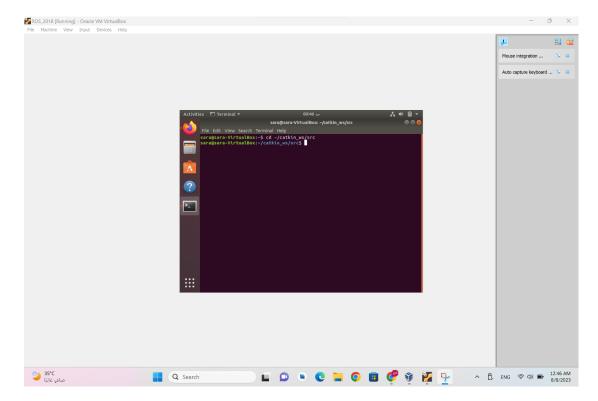
4/ Creating a workspace for catkin

I installed catkin via apt-get for ROS melodic, your command would look like this:

```
$ source /opt/ros/melodic/setup.bash
```

I created and built a catkin workspace:

```
$ mkdir -p ~/catkin_ws/src
$ cd ~/catkin_ws/
$ catkin_make
```



5/Installing the package arduino_robot_arm

- I added the "arduino_robot_arm" package to "src" folder

\$ cd ~/catkin_ws/src

\$ sudo apt install git

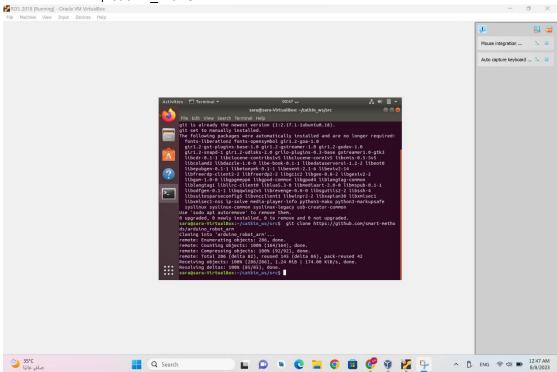
\$ git clone https://github.com/smart-methods/arduino robot arm

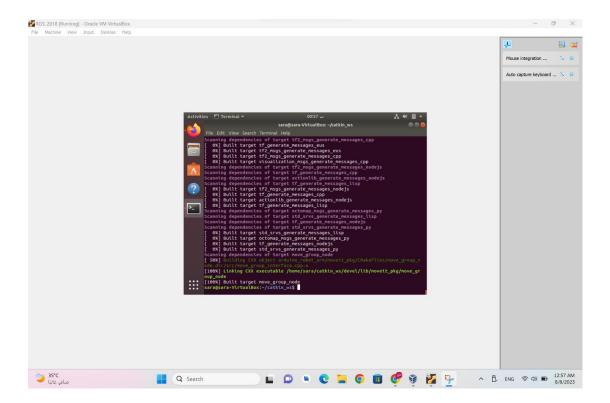
- I installed all the dependencies

\$ cd ~/catkin_ws

- \$ rosdep install --from-paths src --ignore-src -r -y
- \$ sudo apt-get install ros-melodic-moveit
- \$ sudo apt-get install ros-melodic-joint-state-publisher ros-melodic-joint-state-publisher-gui
 - \$ sudo apt-get install ros-melodic-gazebo-ros-control joint-state-publisher
 - \$ sudo apt-get install ros-melodic-ros-controllers ros-melodic-ros-control
 - Compiling the package

\$ catkin_make





6/ Controlling the motors in simulation

\$ roslaunch robot_arm_pkg check_motors.launch

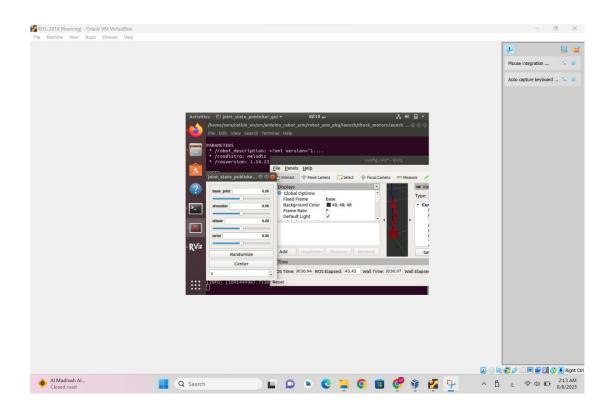
\$ roslaunch robot_arm_pkg check_motors_gazebo.launch

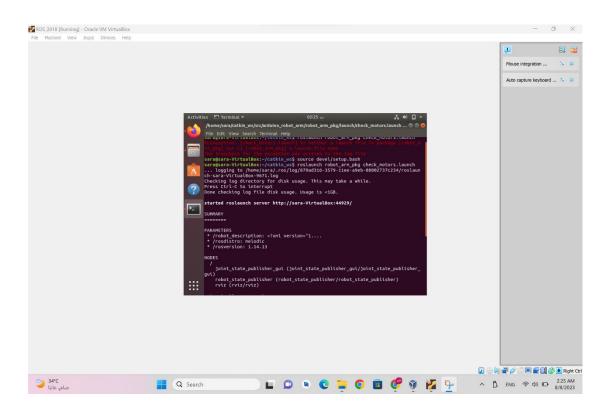
\$ rosrun robot_arm_pkg joint_states_to_gazebo.py

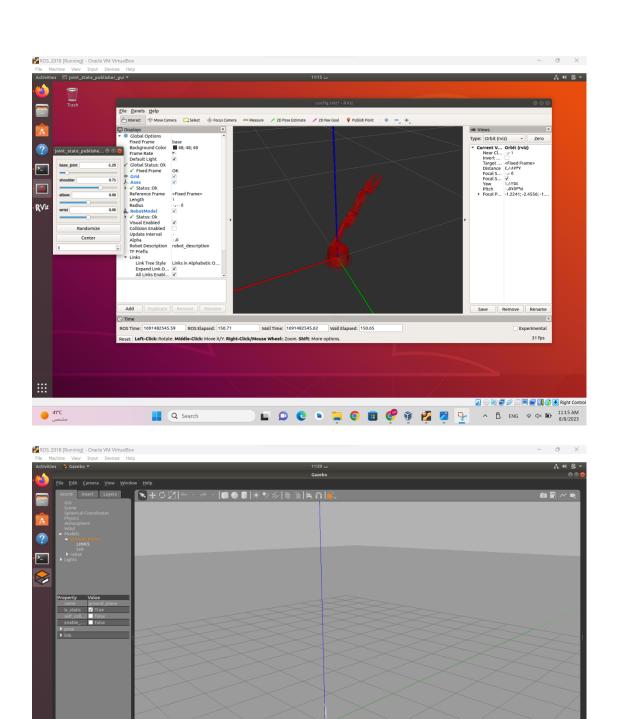
You may need to change the permission

\$ cd catkin/src/arduino_robot_arm/robot_arm_pkg/scripts

\$ sudo chmod +x joint_states_to_gazebo.py







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