

## **Make sure all these commands are installed :**

```
mkdir -p ~/catkin_ws/src  
cd ~/catkin_ws/  
catkin_make  
cd ~/catkin_ws/src  
install source code  
git clone https://github.com/smarts-methods/arduino_robot_arm.git
```

We complete the rest of the installation commands ..

```
cd ~/catkin_ws  
rosdep install --from-paths src --ignore-src -r -y
```

### **For melodic**

```
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  
sudo nano ~/.bashrc
```

at the end of the (bashrc) file add the following line

```
source /home/nuha/catkin_ws/devel/setup.bash
```

Then ( ctrl+o )then enter then ( ctrl+x )

```
source ~/.bashrc
```

open the robot arm using the command :

```
roslaunch robot_arm_pkg check_motors.launch
```

# testing

```
Activities Terminal 01:12
/home/amiraroqi/catkin_ws/src/arduino_robot_arm/robot_arm_pkg/launch/check_motors.la...
File Edit View Search Terminal Help
bash: /opt/ros/melodic/setup.bash: no such file or directory
amiraroqi@amiraroqi-VirtualBox:~/catkin_ws$ roslaunch robot_arm_pkg check_motors.launch
... logging to /home/amiraroqi/.ros/log/1f50bca0-2749-11ee-aedd-080027082bcb/roslaunch-amiraroqi-VirtualBox-2269.log
Checking log directory for disk usage. This may take a while.
Press Ctrl-C to interrupt
Done checking log file disk usage. Usage is <1GB.

started roslaunch server http://amiraroqi-VirtualBox:39611/
SUMMARY
=====
PARAMETERS
  * /robot_description: <?xml version="1.....
  * /rosdistro: melodic
  * /rosversion: 1.14.13

NODES
  /
    joint_state_publisher_gui (joint_state_publisher_gui/joint_state_publisher_
gui)
      robot_state_publisher (robot_state_publisher/robot_state_publisher)
      rviz (rviz/rviz)

auto-starting new master
process[master]: started with pid [2284]
ROS_MASTER_URI=http://localhost:11311
```

