Setup Arm simulation in your system

- Create a workspace, name it simulation_ws.
- Replace created src folder with the given src folder.
- Run catkin_make.
- In case you are lucky, and catkin_make is successful. That's it. [Go to launch.](#)
- If you face errors, Run:
  - *sudo apt-get install ros-melodic-moveit*
  - *sudo apt-get install ros-melodic-ros-control ros-melodic-ros -controllers*
- Run catkin_make again.
- If catkin_make is successful. The setup is complete [Go to launch](#) .
- If you still face any error, then:

Most probably the error would be something like this:

CMake Error at /opt/ros/melodic/share/catkin/cmake/catkinConfig.cmake:83 (find_package):
Could not find a package configuration file provided by **gazebo_dev** with any of the following names:
....

In this case, a package is missing named **gazebo_dev.**
To install It Run: *sudo apt-get install ros-melodic-gazebo-dev*
Note : underscore(in package name) replaced by dash(in command)

Run catkin_make again and see what package is missing,

To install missing package,Run:
sudo apt-get install ros-melodic-<package-name>
If It doesn't work , google the error , or how to install that package.

Repeat the same process, until you install all packages and catkin make is successful.

Launching Demo file

After successful build, in simulation_ws Run:
roslaunch arm_config demo.launch

You should be able to see a moveIt window and a stick arm.(see video)