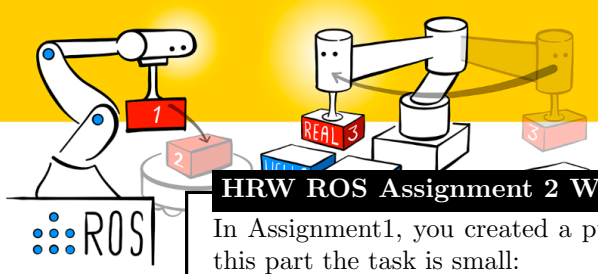

HRW ROS Assignment 2 Week 1 Part 1

In Assignment1, you created a publisher for a new topic to publish box height information. Now, in this part the task is small:

1. Create a subscriber to this new topic, i.e, "`/box_height_info`".

Please upload a screenshot of the code you have implemented for this part.

HRW ROS Assignment 2 Week 1 Part 2

Now, the box height information in "`/box_height_info`" topic is in "m" (metres). And this information has to be converted to feet. So, in the subscriber callback for this topic, you will call the ROS service to convert the distance information from this topic from metres to feet, using the "`metres_to_feet`" ROS service.
You can follow the same steps as was shown in the code illustration on ROS Service clients with minor modifications necessary to accomplish this assignment. Also, you are free to re-use the code of the ROS service client for this assignment. So, your tasks is to modify the `week1_assignment2.py` script in order to:

1. Add a call to the "`metres_to_feet`" service in the subscriber callback.
2. Use a `rospy.loginfo` log message to display the converted information in feet with a meaningful log message.

Once you complete all the relevant sections of the `week1_assignment2.py` script you can complete this assignment with the following steps:

Step 1. Have assignment 1 running.
If you did not close the terminals after completing assignment1, roscore and the ROS node for publishing and subscribing will still be running. So, you can continue to the next steps. If you DID close these terminals, you have to restart everything, as you did for assignment1, to continue.

Step 2. In a new terminal, run the `meter_to_feet` server with

```
$ rosrun hrwros_week1 metres_to_feet_server.py
```

Step 3. In a new terminal, Run the assignment 2 script

```
$ rosrun hrwros_week1 week1_assignment2.py
```

Finally, upload a screenshot of the terminal output after you see 5 log messages with the converted information in feet. You can hit `Ctrl+C` after you see the 5th log message to stop the node from continuously printing the converted box height in feet.

This completes HRW ROS Assignment 2 Week 1