Use the MoveIt commander cmdline

In Module 4.4, we learned how to send commands and how to write a script for the MoveIt commander command line tool.

In this assignment, you will write a script, called `week4_assignment2_script,` to make robot2 execute a sequence using this tool.

You can find the empty file in the `week4_assignment` package, included in the download files of this week, and you should just complete it.

For this assignment to work, you need to have completed Assignment 1, where you defined the robot poses that are going to be used here.

Week 4 - Assignment 2 --- 2 Points

To complete the assignment follow this steps:

Step 1: Start the factory simulation for week 4 with:

```
$ roslaunch hrwros_week4_assignment
hrwros_week4_environment.launch
```

Step 2: In your favorite editor, edit the file `week4_assignment2_script` that you will find on the `hrwros_week4_assignment/scripts` folder.

Step 3: Using the instructions of Module 4.4, add a sequence of MoveIt Commander instructions such that the *robot2* executes the following motions:

1. The robot2 goes to the R2Home configuration.

2. The robot2 goes to the R2PreGrasp configuration.

3. The end effector of robot2 moves linearly down by 0.1m.

4. The robot2 goes to the R2Place configuration.

5. The end effector of robot2 moves linearly down by 0.2m.

Step 4: In a new CCS, Move to the **same file path** of the script.

```
$ roscd hrwros_week4_assignment/scripts
```

Step 5: In that CCS, start the MoveIt commander with the following command:

```
$ rosrun hrwros_week4 hrwros_moveit_commander_cmdline
```

Step 6: Run the script you just created on the MoveIt! commander prompt that shows up.

```
> load week4_assignment2_script
```

This completes the second assignment of this week!

As with previous weeks, you only need to upload your files after completing all 3 assignments of this week.