Instructions for Submitting Code and rosbag

Please follow these instructions to upload your code in the portal. You will have to submit the following:

1. Google Drive Link to your rosbag in a text file.
2. Python_Scripts folder:
   a. Python Script(s)
3. V-REP scene (.ttt file)
4. Lua_Scripts folder:
   a. Lua script(s)

Place all of these files in a **FOLDER titled <team_id>_task_4**. For eg: if your Team ID is HB#105, then name it as **105_task_4**.

1.   Bag File:

a) Run the rosbag command to record the /whycon/image_out and /whycon/poses. The following command records the topics */whycon/image_out* and */whycon/poses* for a duration of 420s. **This command should be executed only after you emulate the hoop successfully in V-REP but before arming the drone.**

```
>> rosbag record /whycon/image_out /whycon/poses --duration=420s --chunksize=10
```

NOTE: The duration parameter is set to 420s in the above command. This has to be set as per the estimated time your code takes to complete. For example, if it takes approximately 60 seconds for your code to complete the task, you must change the duration to 60 seconds. Maximum allowed duration is **420s ONLY.**

b) Compress the bag file.

```
>> rosbag compress -j bag_file_name.bag
```

c) Rename the **compressed bag file** as **<team_id>_task_4.bag** . For eg: if your Team ID is HB#105, rename it as 105_task_4.bag
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d) Upload your rosbag to Google Drive with the proper access permissions and Link Sharing turned to ON.

e) Copy the link into a text file, name the text file as **<team_id>_task_4_rosbag_link.txt**. For eg: if your Team ID is HB#105, rename it as 105_task_4_rosbag_link.txt and include it in your submissions folder.

2. **Python Script:**
   a) You have to submit whatever Python scripts you have used in the completion of this task.
   b) Place them in a folder titled Python_Scripts which will be a subfolder of your submissions folder.
   c) Add "**<team_id>_**" as a prefix to your python files. For eg: if your Team ID is HB#105 and your Python script is named task_4.py, rename it as 105_task_4.py.

3. **V-REP Scene:**
   a) After completing your Task, rename the scene as **<team_id>_task_4.ttt**. For eg: if your Team ID is HB#105, rename it as 105_task_4.ttt and include it in your submissions folder.

4. **Lua Script:**
   a) You have to submit whatever Lua scripts you have used in the completion of this task.
   b) Copy all the scripts you have used in the completion of this task into separate files.
   c) Name them appropriately and make their extensions as .lua.
   d) Place them in a folder titled Lua_Scripts which will be a subfolder of your submissions folder, add "**<team_id>_**" as a prefix to your python files. For eg: if your Team ID is HB#105 and your Python script is named dummy_1.lua, rename it as 105_dummy_1.lua.

Compress the submission folder into a .zip file before uploading. Name the .zip file as your <team_id>_task_4.zip. For eg: if your Team ID is HB#105, then rename it as 105_task_4.zip.