

Task 1 – Explorer Bot

Welcome to Task-1!!

This task is divided into two parts:

- Task 1.1 – Understanding publisher and subscriber using Python
- Task 1.2 – Simulation, modeling, and navigation in simulators.

Please find the following folders within the folder that contains this Read Me file.

- First Folder is **TASK-1.1**
 - Please find the following files/folder in this folder:
 - Folder: Scripts
 - File: Creating workspace and learning ROS.pdf
 - File: Problem Statement.pdf
 - File: Task-1.1 readme.pdf
 - Open the file [Task-1.1 readme.pdf](#) and follow the instructions to Complete the task
- The second folder is **TASK-1.2**
 - Please find the following file/folders in this folder:
 - Folder: Final task
 - Folder: Package
 - Folder: Tutorials
 - File: Task-1.2 Read_me.pdf
 - Open the file [Task-1.2 readme.pdf](#) and follow the instructions to complete the task.
- **Submission Instructions:**
 - **Task-1.1**
 - **ROS package:** After completing the given task store your **whole package** into **Task-1 folder** with name **<team_id>_task1.1**. Instructions for uploading your task will be provided on the portal.
 - **Task-1.2**
 - **Video Link:** Upon verifying that your task is complete, record a **maximum 5 minute** video using a screen recorder. The video must be as follows:
 - Team Slide –All members detail in the given slide.
 - Any One member of the team, running the scripts and launch files in terminal.
 - Show output of RViz and Gazebo on the PC screen.

- **ROS Package:** After completing the given task **store** your **whole package** into **Task-1 folder** with name **<team_id>task1.2**. Instructions for uploading your task will be provided on the portal.

Finally convert **Task-1 folder** to zip and upload on the portal. Make sure **Task-1 folder** contain two separate folders for **<team_id>_task1.1** package and **<team_id>_task1.2** package.

Upload the **video link** and **zip folder** as per instruction given on portal.

Warning:

- **IMPORTANT:** The document you submit should be YOUR work in YOUR WORDS. To avoid any copyright violations, you must NOT copy phrases directly from manuals or web.
- The team should NOT mail or upload the document anywhere else, except on the portal.
- Teams failing to submit the document by the deadline will lose the marks for this task.
- e-Yantra WILL NOT entertain any request for extension of deadline for uploading the task.
- e-Yantra holds complete discretion to disqualify a team if any foul play is suspected.