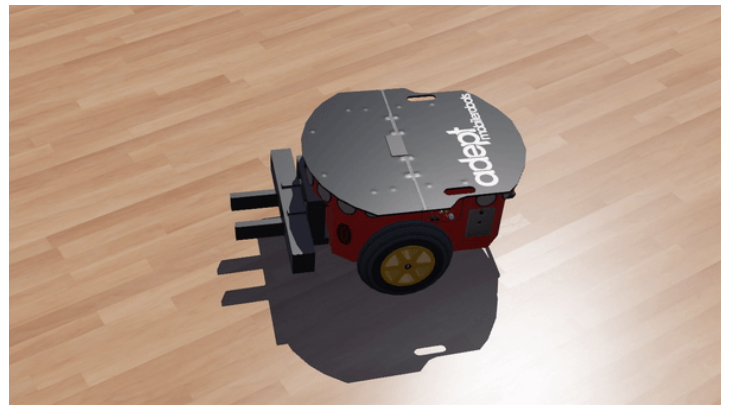


## Bonus Task

Congratulations for finishing main task of the hackathon! You made it to the next level! 🙌

### Ball sorting task

- You are now given a differential drive robot with two wheels attached with a gripper.
- The gripper can move up/down and can open/close its fingers.




- The world has two balls (blue and green) placed on a table. There are two bins (blue and green) placed on either side of the table.





## Women in AI & Robotics Hackathon (24.06.2022 to 26.06.2022)

**Author:** Kashmira Shinde

 Your task is to :

1. Drive the robot near the table
2. Pick any one ball with the help of the gripper
3. Drive the robot to the bin of respective color (i.e. blue bin for blue ball and green bin for green ball)
4. Release the ball in the bin

 Repeat steps 1-4 for the other ball.

 **Task would be considered complete when both the balls are in their respective bins!\***

*\*Teams which finish this task will be given extra points.*

### File download instructions

1. Please download the task files from drive.
2. Open the world *pioneer3dx\_gripper.wbt*
3. A template code is already given to you for the controller *pioneer3dx\_gripper.cpp* as a starting point for the task.