Task 3

EUantraEngineering a better tomorrow



Welcome to NB theme!

Rulebook 1 Task 0 1 Task 1

≡ .⁄ Q

eYRC 2020-21: Nirikshak Bot (NB)

Task 2

Task 4

4A - Path Planning

4B - Develop Ball Navigation Algorithm

4C - Theme Analysis and Implementation

Task 5

Practice Task

Instructions for Task 6

Task 6 Scene Details

Coding Standard

Git and GitHub

Live Session 1 - 24th October 2020

Live Session 2 - 21st November 2020

Live Session 3 - 12th December 2020

Live Session 4 - 10th January 2021

Changelog

Task 4

[Last Updated on: 30th December 2020, 07:00 Hrs]

Welcome to Task 4 of Nirikshak Bot.

The aim of this task is to **plan the path and navigate the ball through it** based on the concpets o Image processing, Algorithm Building and Robotic Simulation learnt in Task 1, 2 and 3.

This task is divided into **three** parts:

• (1) Task 4A

• This task is based on reading **start** and **end** coordinates for a given maze from a **JSON** fi and calculating the **path** between the start and end coordinates for a given maze.

• (2) Task 4B

- This task is based on developing an algorithm **to navigate the ball through the maze** c top of the ball balancing platform in the given CoppeliaSim scene.
- It is based on maze generation in CoppeliaSim using the output of Task 2B and control logic development in Task 3.

• (3) Task 4C

• This task is based on understanding the **Rulebook** and analyzing the theme along with it implementation.

ALL THE BEST!!

Welcome to NB theme!

Rulebook

Task 0

Task 1

Task 2

Task 3

Task 4

4A - Path Planning

4B - Develop Ball Navigation Algorithm

4C - Theme Analysis and Implementation

Task 5

Practice Task

Instructions for Task 6

Task 6 Scene Details

Coding Standard

Git and GitHub

Live Session 1 - 24th October 2020

Live Session 2 - 21st November 2020

Live Session 3 - 12th December 2020

Live Session 4 - 10th January 2021

Changelog