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 !!
