eYRC 2020-21: Nirikshak Bot (NB)

Task 2

[*Last Updated on:* ***02nd November 2020, 16:44 Hrs***]

Welcome to **Task 2** of **Nirikshak Bot**.

The aim of this task is to **adapt, improvise and build** on the concpets of Image processing, Algorithm Building and Robotic Simulation learnt in Task 1.

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

- **(1) Task 2A**
  - This task is based on **Image Processing** using **Vision Sensors in CoppeliaSim**.
  - Teams should apply the concepts learnt in **Task 1A** and **1B** and build a Python Remote API file to find the correct **Shape, Color, Centroid X and Centroid Y** of the ball(s) in the dynamic CoppeliaSim scene using a Vision Sensor.

- **(2) Task 2B**
  - This task is based on **maze generation in CoppeliaSim** using the **output of Task 1B**.
  - Teams should use **python remote API** to **transmit the encoded maze array** (output of task 1b) to a **Lua script** in CoppeliaSim scene to **generate walls of the maze**.

ALL THE BEST !!