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eYRC 2020-21: Nirikshak Bot (NB)

Task 1

[Last Updated on: **14th October 2020, 16:44 Hrs**]

Welcome to **Task 1** of **Nirikshak Bot**.

The aim of this task is to familiarize you with important concepts of Image Processing, 3D Designing Algorithm Building and Python Programming.

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

- **(1) Task 1A**
 - This task is divided into **two** parts based on Image Processing which makes use of concepts of OpenCV. These parts are as follows:
 - Determine different shapes in a given image.
 - Determine coordinates of a red moving circle in a given video.
- **(2) Task 1B**
 - This task is based on detecting a maze from a given image using OpenCV techniques and encode it in a given format.
- **(3) Task 1C**
 - This task is divided into **two** parts. These are as follows:
 - Learn important concepts of CoppeliaSim software from [Video Tutorials](#) created by **e-Yantra Team**.
 - Design your own Ball Balancing Platform in CoppeliaSim software.

ALL THE BEST !!

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