

Task 2 - Problem Statement

In this task you have to interface the RGB LED and color sensor with Arduino Mega 2560 microcontroller provided in the Robotic Kit.

- ❖ As per the instructions given in the Rulebook, prepare red, blue and green Nuts using thermocol sheets.
- ❖ Refer to the color sensor tutorial folder to interface color sensor with the microcontroller.
- ❖ Your task is to detect the color of the Nuts using the color sensor and indicate the same by glowing corresponding RGB LED, i.e, red light for red Nut, blue light for blue Nut and green light for green Nut.
- ❖ You will be provided Hardware_Testing.zip file on the portal, which contains resources to perform the task.

Note: Arduino IDE is not allowed to perform the given task.

Submission Instructions:

On successful completion of this task, create a folder named ******_Task2** where **** is your Team ID. For example, if the Team ID is 12, save it as, **12_Task2.zip** and submit on the portal.

The team will modify the Color Sensor Demo Code project file and submit the project as instructed.