H61 AEE:

Applied Electrical and Electronic Engineering Preparatory work

( Session 6)

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The purpose of the Preparatory work is to develop a program that could identify the colour of the objects in the images. The program should be developed in C++ programming language, and the OpenCV functions are necessary for the whole project.

In this project, first the image should be read first , then the RGB image(R:red G:green B:blue ,this is the normal colour model) should be converted to HSV form(H:hue S:saturation V:value, the HSV model is more in line with people's description and interpretation of colours), then the range limits of the HSV values should be defined for each colour(red blue green), The H component can basically represent the colour of an object, (0<H<10 red, 65<H<75 green, 100<H<125 blue), after that the Conditional functions can be used to confirm the colour of the object in the image .

The OpenCV functions should be Previewed on the website first.

**FLOWCHART: COLOUR IDENTIFY**

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