**WORKING :**

A simple Color Sensor using Arduino is developed in this project. The color sensor module senses the color in its surroundings. The working of the project is explained here.

The TCS3200 Color Sensor has filters for Red, Blue, Green and Clear. The intensity of each color is represented as a frequency. In Arduino, we have fixed the output frequency scale to 100% by applying HIGH to S0 and S1 pins of the color sensor.

We have to use the S2 and S3 pin on the color sensor to select the type of photo diode i.e. red, green or blue. Whenever a particular Photo diode is selected, the PULSEIN feature of the Arduino is activated on the pin that is connected to the output of the Color Sensor.

Finally we get output by keeping ldr near to any led. LDR sense colour and we get the output as per the colour of led.