IoT COLOR BASED PRODUCT SORTING MACHINE

IoT based color sorting machine is a prototype of a machine that could sort objects based on their respective colors and send the data over the internet. It is a three-tier structure;

- The first tier contains the objects to be sorted in a hollow cylinder type structure.

- The second tier consists of a circular slider, which moves the object in front of the sensor. The sensor then detects the color of the object and sends the signal to the Arduino. The color sensor works on the principle of converting the light into the frequency with the help of the photodiodes. Every color has an individual frequency spectrum. The Arduino is programmed in a way to move the second slider to a particular angle for a particular color.

- The third tier consists of the second slider which delivers the object to their bin.