

ABSTRACT

The rapidly growing role of technology affects various domains including the realm of the corporate industry in meeting the increasing demands of the industry. So that speed, accuracy, and accuracy are needed in the sorting process, with the current advances in information technology. The process of sorting the products is still manual, namely by moving the products to the storage area using human power and lifting them one by one which is quite exhausting. So that manual sorting is less efficient, technological advances are needed in order to save time and effort, and provide more benefits for the industry. So research is carried out using hardware and software design methods that aim to make a Production Result Sorting Tool Based on Color Codes, this tool uses a tcs 230 color sensor as a color code reader and uses a servo motor as a separator, as a result of this research is expected to be able to help users or company owners to simplify the sorting process that is more efficient and can provide benefits according to industry goals. Rats (*Rattus norvegicus*) are widely used as experimental animals in various studies that have been carried out, both white mice and black mice. Certified rats are expected to make it easier for researchers to obtain experimental animals that meet the required criteria. And in general, to sort mice, scientists do manual sorting by weighing the mice one by one and sorting them again according to the color of the mice. This will certainly take a very long and complicated time.

Keywords: Rat, Sorting, Color