

## ABSTRACT

There are lots of people are trying to get the fish whether in sea or in the lake, especially in java island by using the poison like "Pukat Harimau" or the bomb will destroy the Ecosystem which live inside of the sea and of course will harm the country. That is the reason why the idea comes and how to solve this problem by making the green fish captured. This tool is also help the fisherman to work and catch the fish in the sea and keep the nature.

In this last project will make a tool which can invite the fishes using the LED and the voice recognition. The function of LED is to guide the target "the Fishes" which around the tool. While the voice recognition has function for voice recognition that will be captured by the fishes. From that data we know that the fishes will be attract and outing the ultrasonic frequency. With those two tools that can take the fishes attention to see the source of the voice and the light.

After testing there are some conclusion the fishes only response when the sea is dark. The fishes attracted by the light which blink and rounded on the tool. For ultrasonic wave after testing from the lowest wave 30 KHz until the highest wave 50 KHz fishes respons the ultrasonic wave in 45 KHz frequent. After testing the tool in the aquarium for 50 times, the average number where the fishes are getting closer is after 38 second. While the testing in the pond with the size 2 m x 1 m show the result after 10 times trial that shown the fishes will getting closer after 0.83 minut in the dark condition.

**Key word:** transmitter,voice,light,frequency