Exp 1 –design a hand held magical heart that blinks 60 times a minute a red color if it is held from any one side and 120 times a minute with green color if held from both sides.

Concept used :-

the concept used for this practical are:

the heart will blink with the help of the arduino board and breadboard .

using breadboard test the electronic circuits and certain parts of breadboard are joined together so that electricity will pass from it and by which we can make the electric circuits .

arduino board is connected to via USB the user will write the code in IDE and by using the port com 21 uploads it and execute in arduino.

Arduino provides the digital signals with the help of which leds will glow accordingly.

PIR sensors are rather generic and for the most part vary only in price and sensitivity. Most of the real magic happens with the optics. This is a pretty good idea for manufacturing: the PIR sensor and circuitry is fixed and costs a few dollars. The lens costs only a few cents and can change the breadth, range, sensing pattern, very easily.

Learning:-

I have learned how to use a sensor with the arduino board and it also states that whenever the intensity of light reduces from one side the heart blinks red and if from both sides it blinks green.

Observations :- cover

When we will cover the heart from one side the sensor senses dark and the heart will blinks red and when we will cover the heart from both the sides the sensor senses light and the heart will blinks green.

Learning outcomes:-

By doing this experiment I have learned how to make the electric circuits using various hardwares by the help of an arduino board .

I have learned how we can blink the heart red when we will cover it from one side and heart will blink green when it will cover from both sides.

Precautions:-

Pin number should be correct and connections should not be loose.

Circuit should be closed.