Exp 1 –design a system with 5poles for highway lighting such that whenever a car crosses through a pole ,the led installed on it starts blinking only during night at a rate twice that of previous pole.

Concept used :-

the concept used for this practical are:

the led 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 led blink when it crosses through the pole according to the car passes through the road how many times it will pass.

Observations :- cover

When the car will pass through the road led will blink according to the car how many times it will pass.

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 led when the car cross through the road in night according to the no of times the car passes.

Precautions:-

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

Circuit should be closed