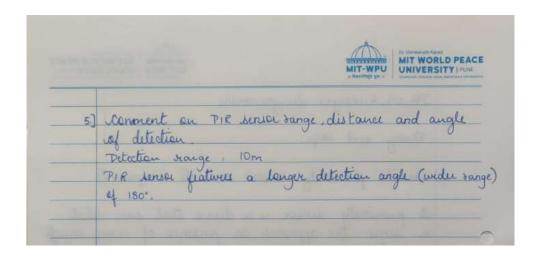
## PB\_05\_Kushagra Suryawanshi

# **EIOT LAB ASSIGNMENT 5**

**Aim:** To simulate an operation of obstacle detection and notifying it with buzzer or LED using Raspberry-Pi/Beagle board/ TinkerCAD Arduino etc.

## Theory/FAQs:

|     | MIT WORLD PEACE MIT-WPU (1 Restrict) to 100  (2 Note that the control of the cont |
|-----|--|
|     | PB_05_Kushagra Suryawanshi   |
| 110 | The second new State and Second Second   |
|     | Theory and 7Ags.   |
| 12) | Describe prominity sensors and its components.   |
|     | A prioriently sensor is a device that can detect   |
|     | or sense the approach on presence of nearly object   |
|     | or since the approach on presence of nearly object and for this it does not need physical contact.   |
|     | It consists of a call an illiluonic oscillator, a  |
|     | detection circuit, an output circuit, as an energy   |
|     | sourcezz to provide electrical stimulation   |
| 2   | Pir servoi applications:   |
|     | Lightering controls  |
| - i | ) Thermostatt and HVAC dystims   |
| i   | Smart Home and IoT   |
| - 6 | IP cameras and see surveillance systems.   |
| ð   | Various PIR sensors: Microvane servous and dual Techy  |
|     | Hybrid Sersors.  |
| 4   | conjune various features of PIR servois.   |
|     | PIR remore are flat control and minimal effort.  |
|     | have a wide lend starge, and are simple to integerface   |
|     | with most 71R rensors have a 3-Pin connections at  |
|     | side on bottom one pin will be ground, another will  |
|     | be signal and the last pin will be power (5x)  |

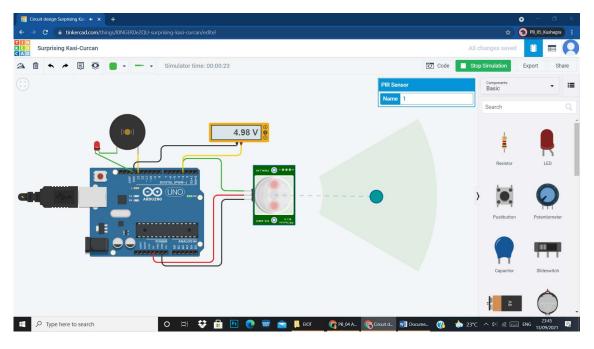


#### Code:

```
// C++ code
//
void setup()
 pinMode(3, INPUT);
 pinMode(13, OUTPUT);
}
void loop()
{
 if (digitalRead(3) == HIGH)
 digitalWrite(13, HIGH);
 }
 else
 digitalWrite(13, LOW);
 }
```

```
delay(10); // Wait for 1000 millisecond(s)
}
```

#### Design/Output:



**Simulation:** <a href="https://www.tinkercad.com/things/l0NGEK0e2QU-surprising-kasi-curcan/editel?sharecode=SbhjGikuwF5-W2VNu3f">https://www.tinkercad.com/things/l0NGEK0e2QU-surprising-kasi-curcan/editel?sharecode=SbhjGikuwF5-W2VNu3f</a> FcducMmmyfOLVMAh1xnb-8k