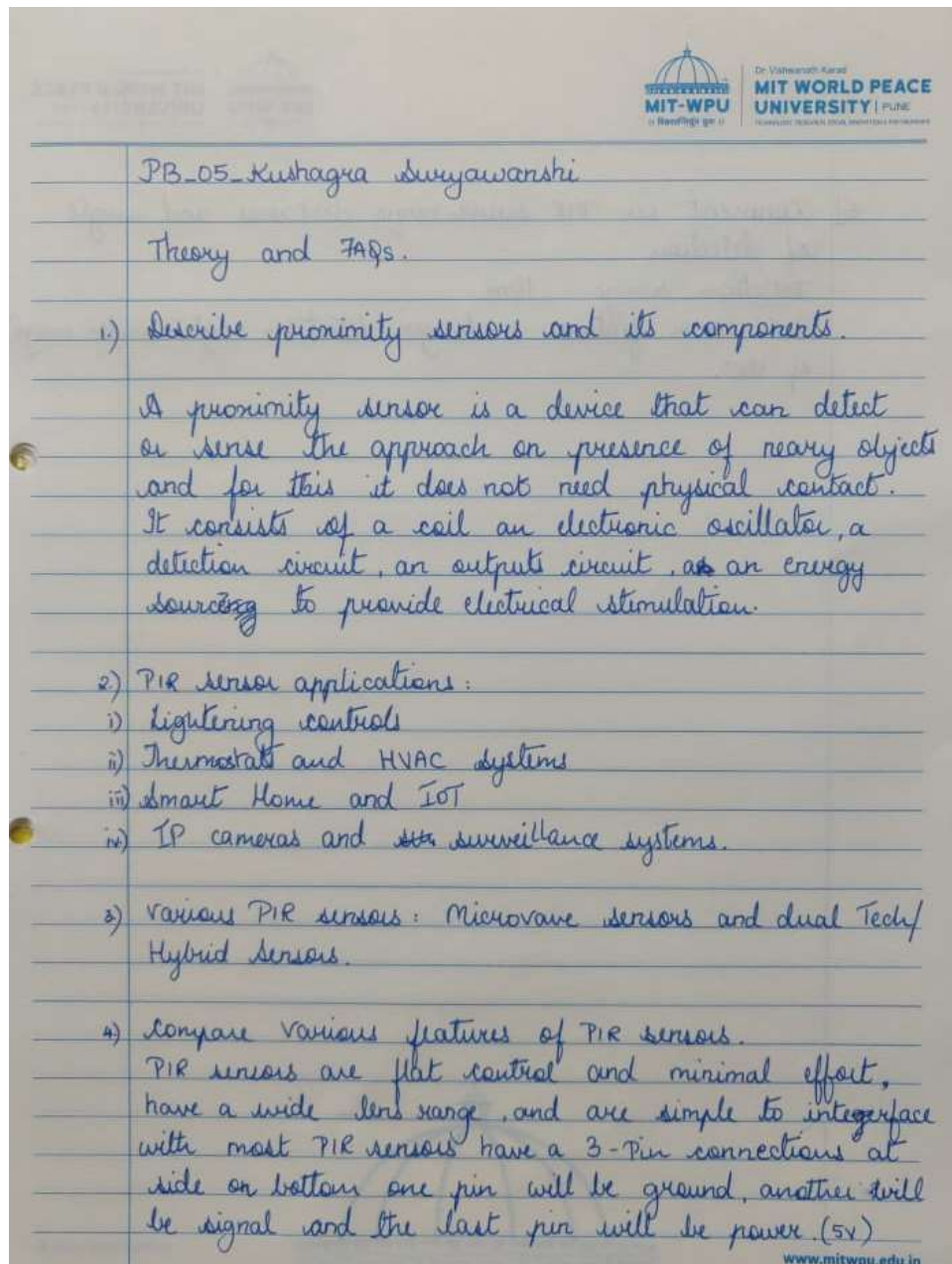# EIOT LAB ASSIGNMENT 5

***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:***

5] Comment on PIR sensor range, distance and angle of detection.

Detection range : 10m

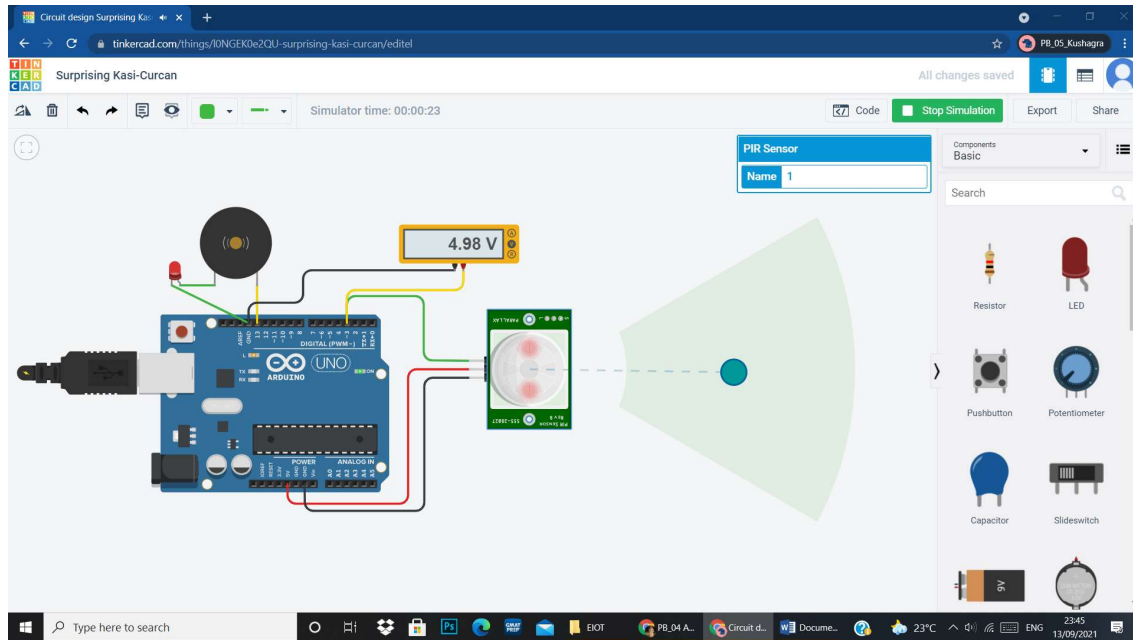PIR sensor features a longer detection angle (wider range) of 180°.

## Code:

```cpp
// 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:** https://www.tinkercad.com/things/l0NGEK0e2QU-surprising-kasi-curcan/editel?sharecode=SbhjGikuwF5-W2VNu3f_FcducMmmyfOLVMAh1xnb-8k