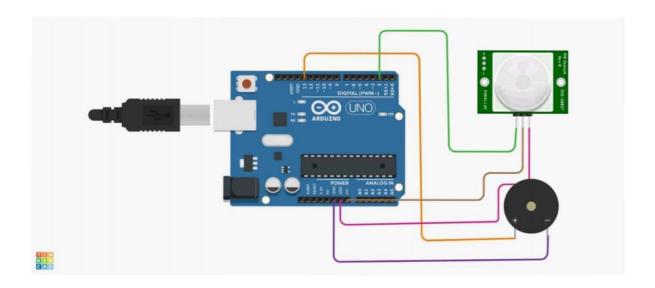
HARSHAVARTHINI A [19ECRO44]

ASSIGNMENT 1

CODE:

MOTION DETECTION:

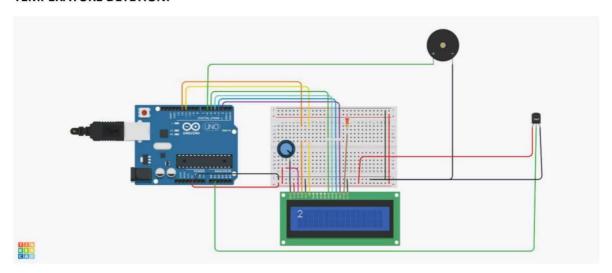


```
int sensorState = 0;
void setup()
{
   pinMode(2, INPUT);
   pinMode(13, OUTPUT);
   Serial.begin(9600);
}

void loop()
{
   // read the state of the sensor/digital input
   sensorState = digitalRead(2);
   // check if sensor pin is HIGH. if it is, set the
   // LED on.
   if (sensorState == HIGH) {
      digitalWrite(13, HIGH);
   }
}
```

```
Serial.println("Sensor activated!");
} else {
  digitalWrite(13, LOW);
}
delay(10); // Delay a little bit to improve simulation performance
}
```

TEMPERATURE DETETION:



CODE:

```
#include <LiquidCrystal.h>
LiquidCrystal lcd(12, 11, 5, 4, 3, 2);
float a;
void setup() {

lcd.begin(16, 2);
  pinMode(6,OUTPUT);
}

void loop() {
  a=analogRead(1);
  a=a*0.0048828125;
  a=(a-0.5)*100;
lcd.clear();
lcd.setCursor(0, 0);
```

```
lcd.print(a);
lcd.print("C");
if(a>60)
{
    digitalWrite(6,HIGH);
}
else
    digitalWrite(6,LOW);
}
```