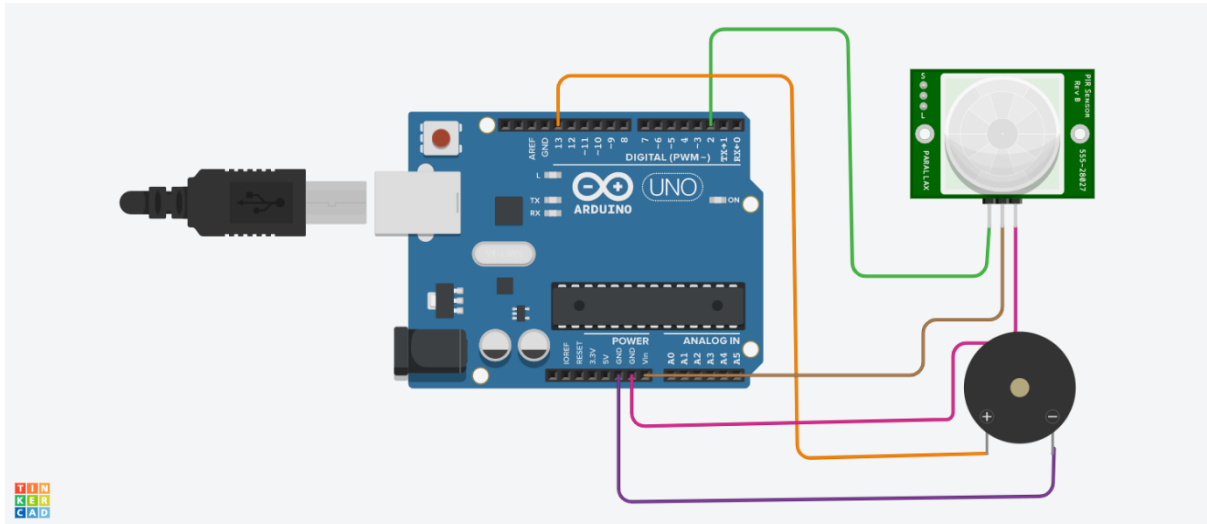


ANANTH T [19ECR007]

ASSIGNMENT 1

MOTION DETECTION:



CODE:

```
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);
  }
}
```

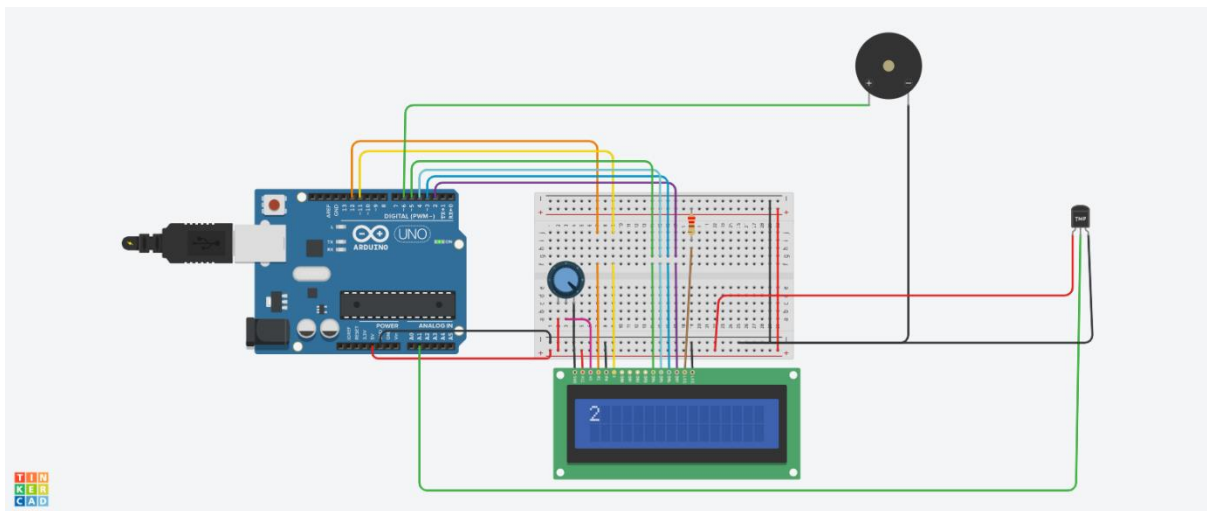
```

    Serial.println("Sensor activated!");
} else {
    digitalWrite(13, LOW);
}

delay(10); // Delay a little bit to improve simulation performance
}

```

TEMPERATURE DETECTION:



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);  
}
```