

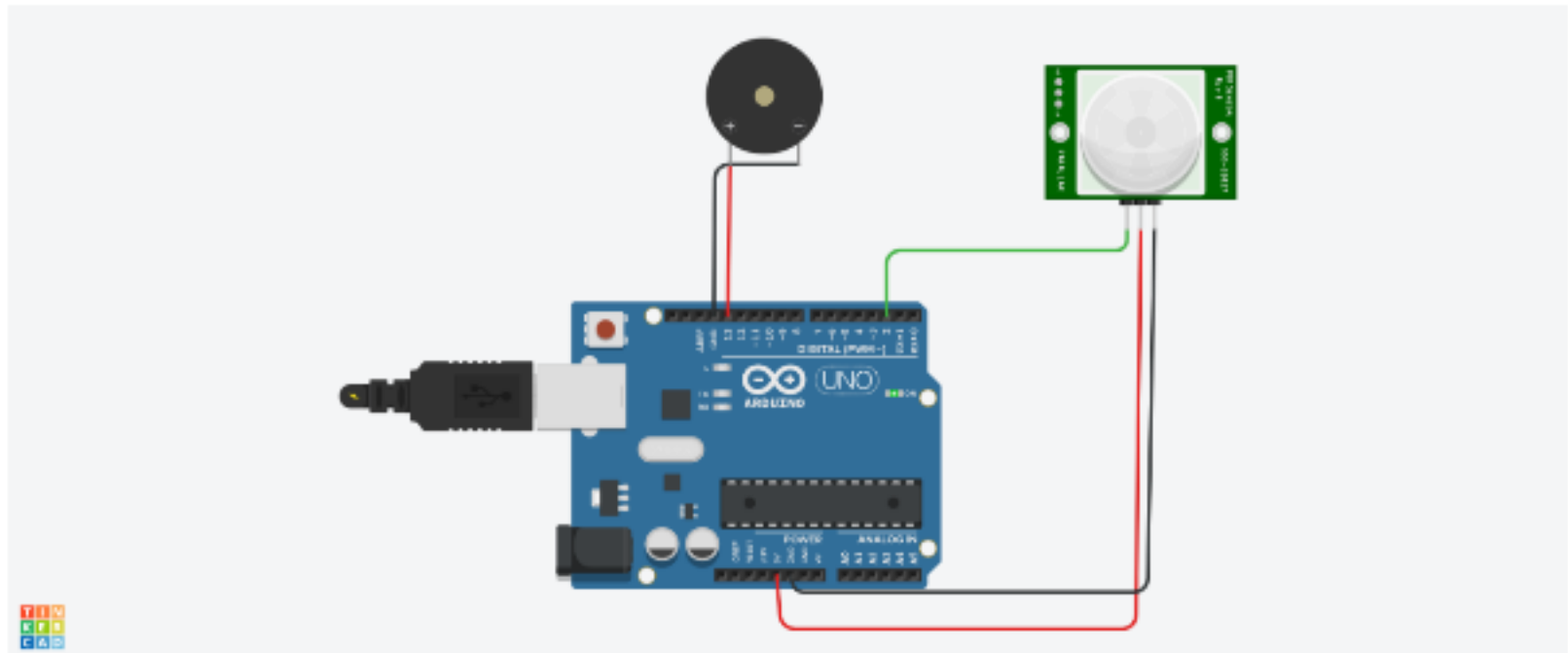
ASSIGNMENT-1

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19ECR020

IOT

1.MOTION DETECTION USING PIR SENSOR:



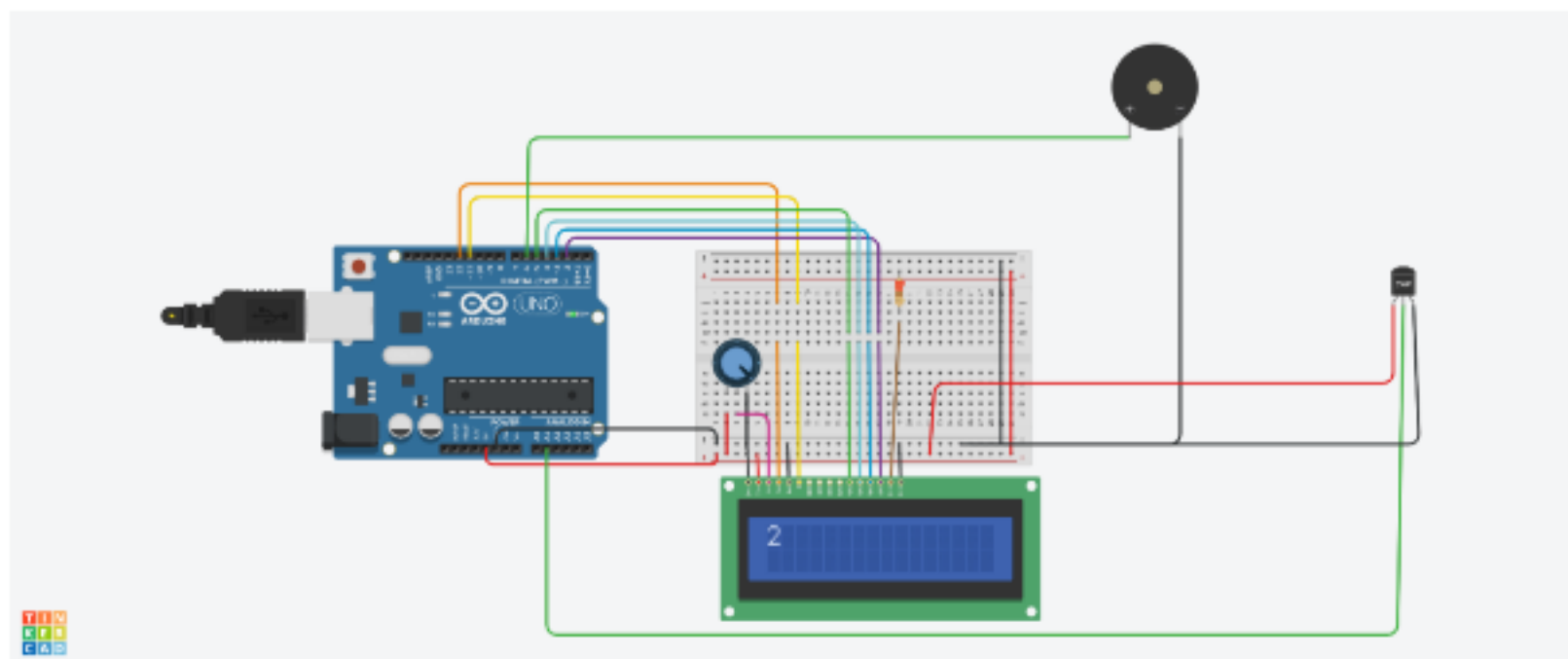
```
int sensorState = 0;
void setup()
{
  pinMode(2, INPUT);
  pinMode(13, OUTPUT);
  Serial.begin(9600);
}
void loop()
{
  // read the state of the sensor/digital input
```

```

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
}

```

2. TEMPERATURE DETECTION USING TEMPERATURE SENSOR



```

#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);  
}
```