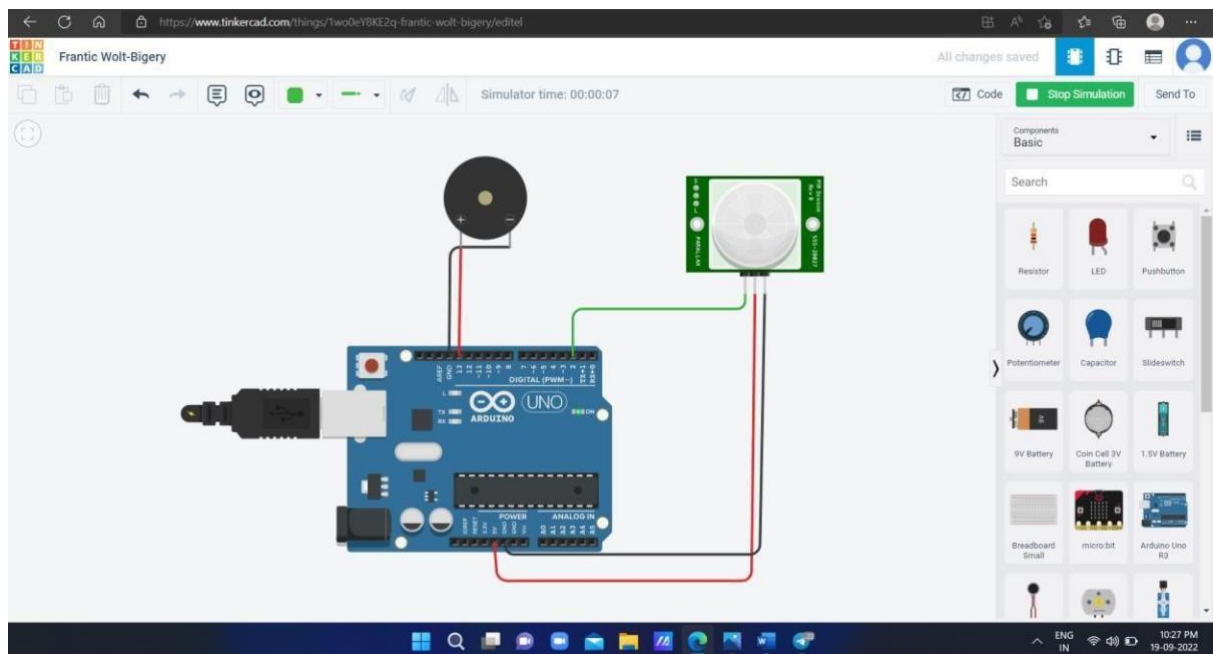
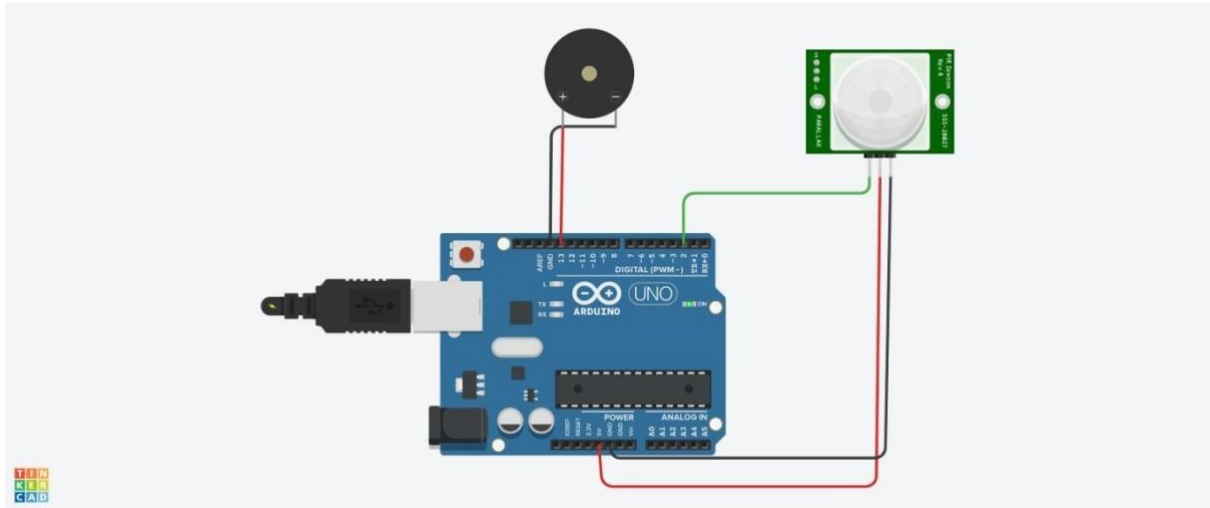


# ASSIGNMENT 1

## 1.MOTION DETECTION USING PIR SENSOR:



### PROGRAM:

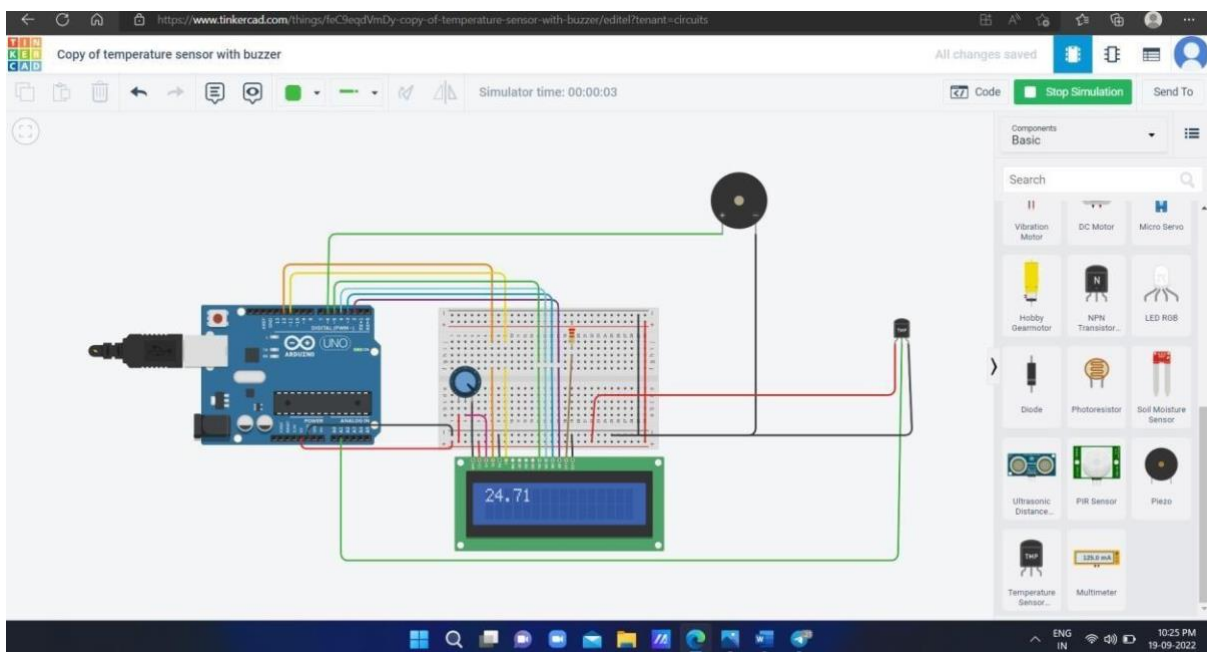
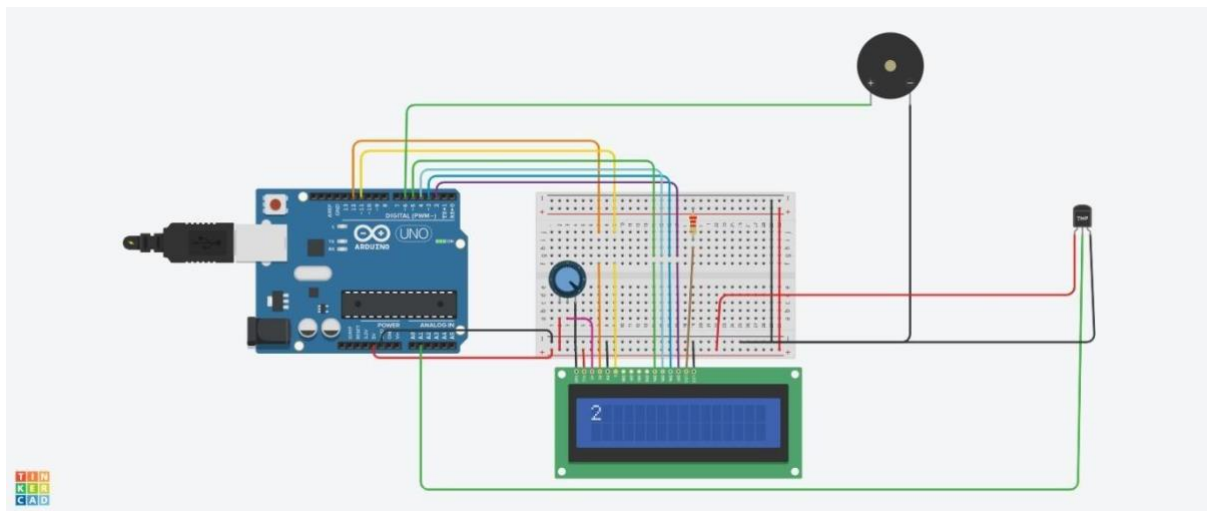
```
int sensorState = 0; void setup()
```

```

{
  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=(a0.5)*100;  
  lcd.clear();  
  lcd.setCursor(0,    0);  
  lcd.print(a);  
  lcd.print("C");  if(a>60)  
  {  
    digitalWrite(6,HIGH);  
  }  
  else  
  digitalWrite(6,LOW);  
}
```