Assignment -1

Assignment Date	16 September 2022
Student Name	R.CHANDRU
Student Roll Number	732919ECR020
Maximum Marks	2 Marks

1.MOTION DETECTION USING PIR SENSOR:
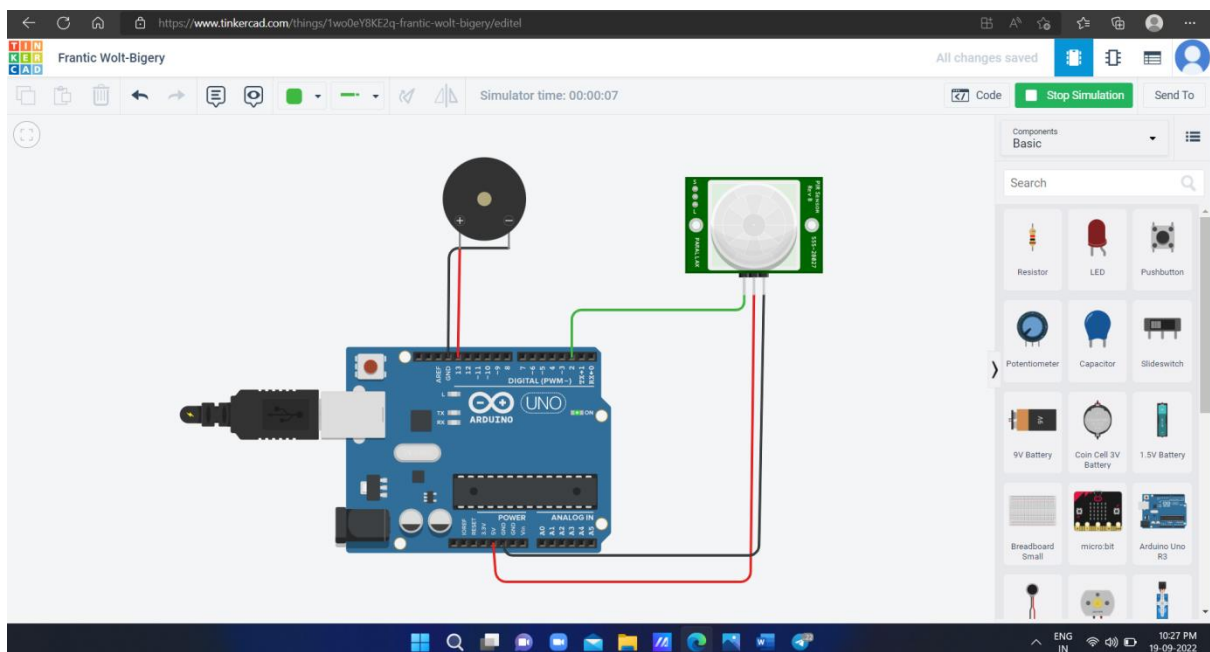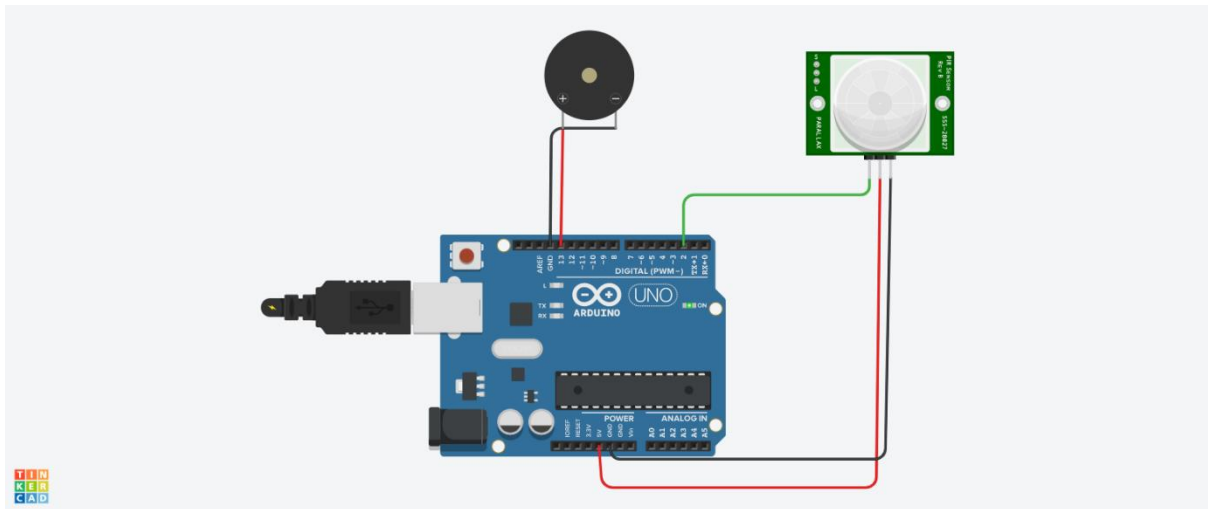
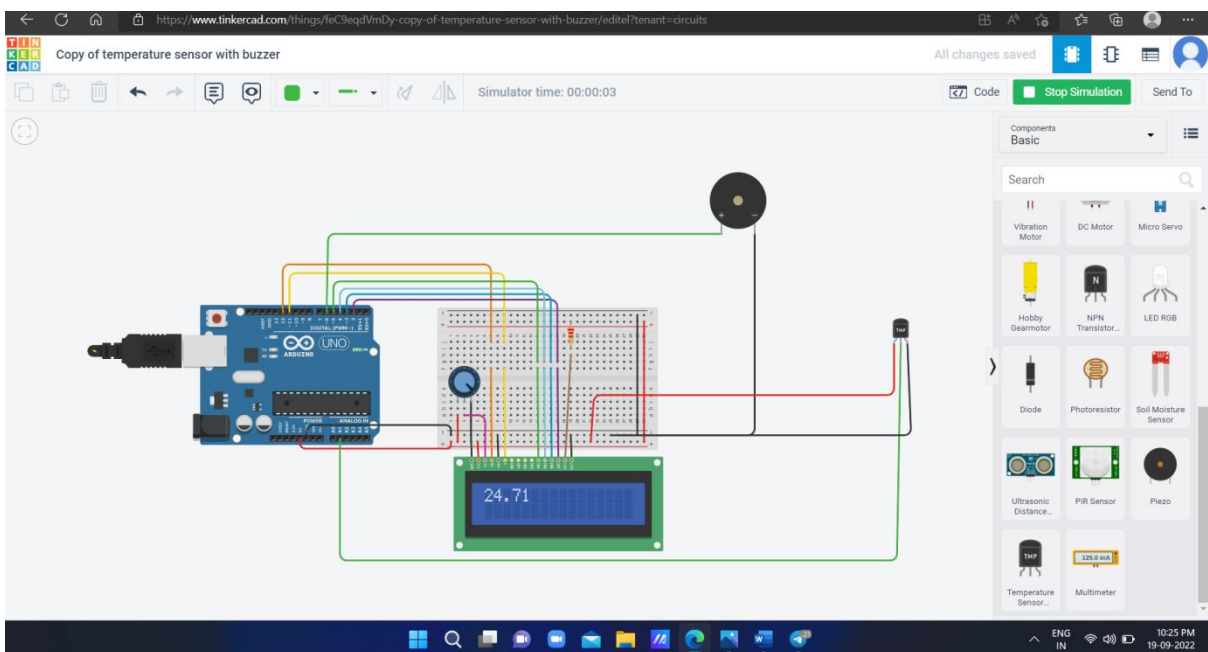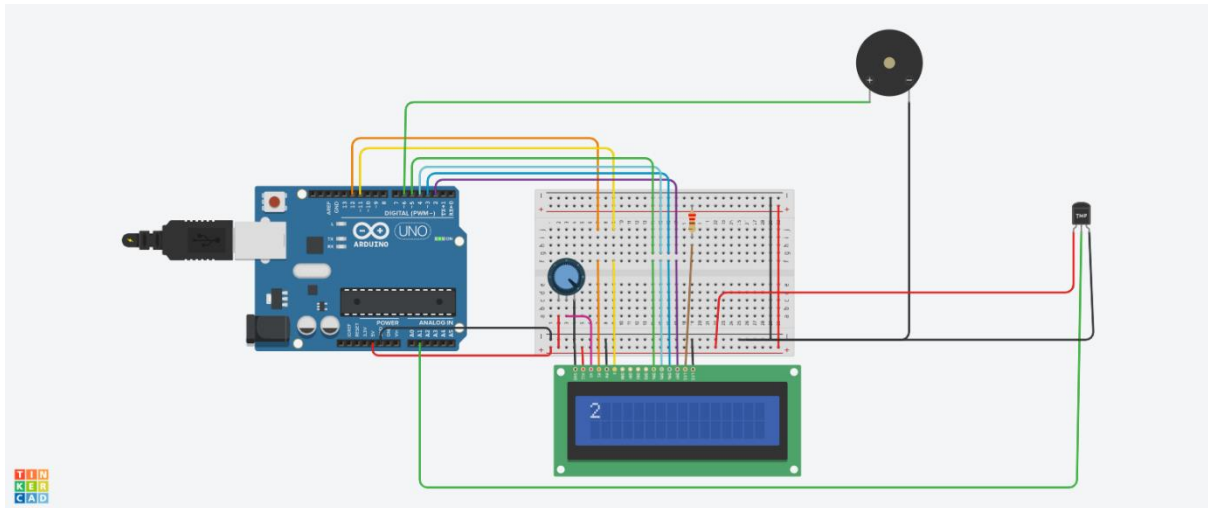**PROGRAM**

```
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

PROGRAM

#include <LiquidCrystal.h>

LiquidCrystal lcd(12, 11, 5, 4, 3, 2);

float a;

void setup() {

```arduino
  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);
 }
```