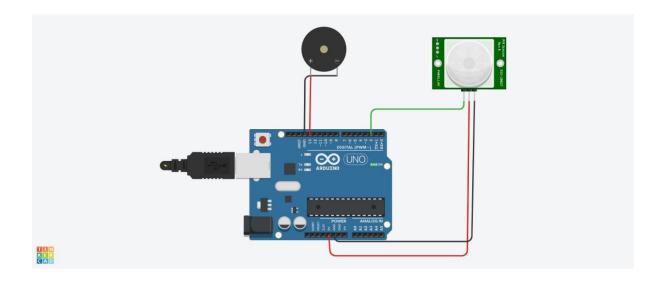
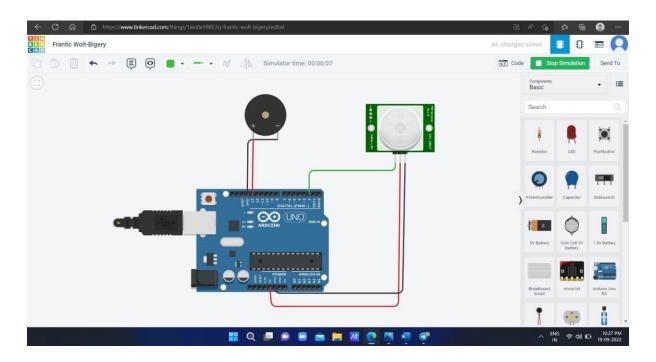
DEEPAK S 732919ECR021

ASSIGNMENT 1

1.MOTION DETECTION USING PIR SENSOR:

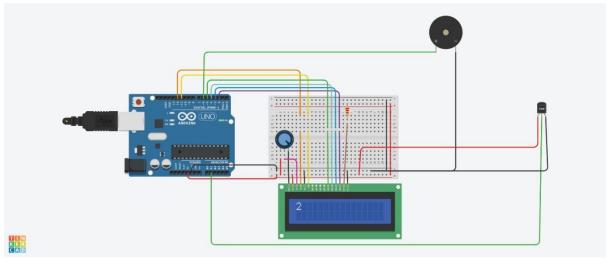


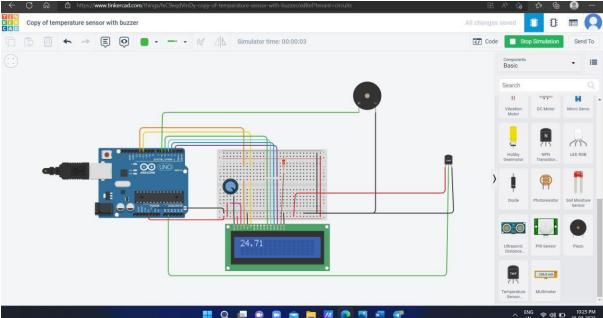


PROGRAM:

```
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=(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);
}
```