ASSIGNMENT – 1

INDUSTRY-SPECIFIC INTELLIGENT FIRE MANAGEMENT SYSTEM
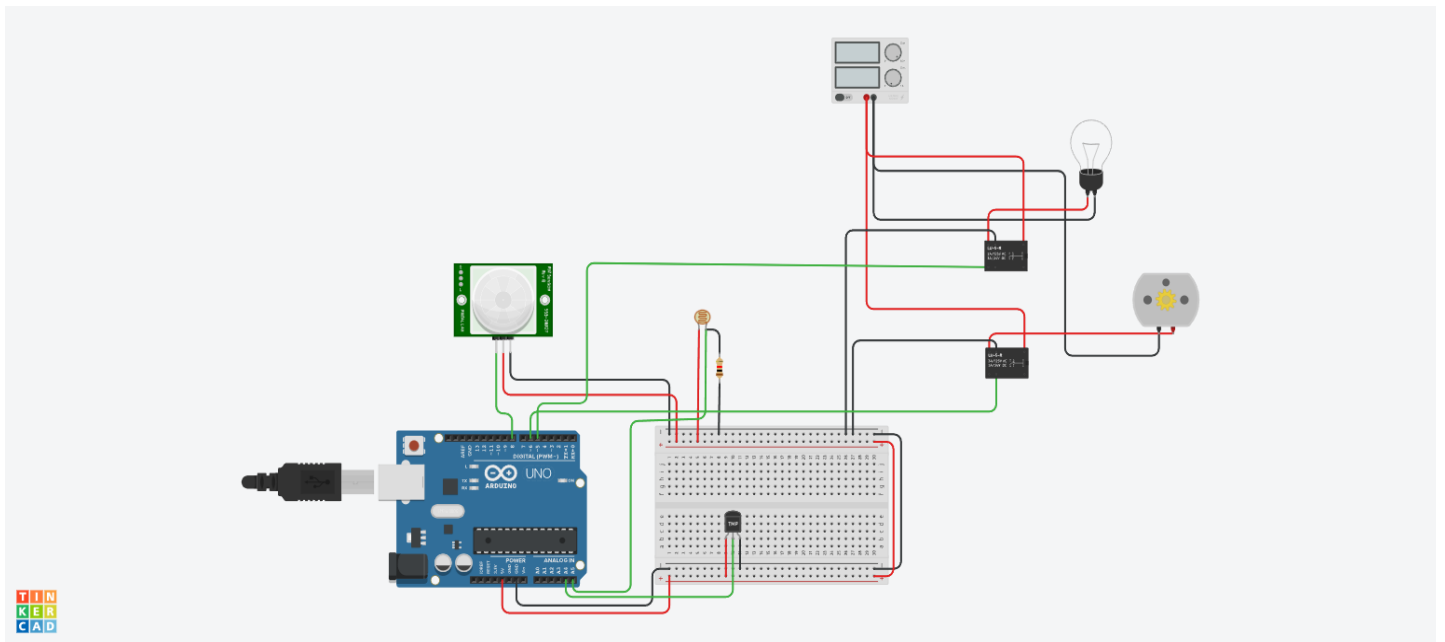
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MEMBERS: PRANESH BOOPATHY (Leader)

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ARCHITECTURE:

PROGRAM:

```
float x,y,z,temp;

void setup()

{

  pinMode(8, INPUT);

  pinMode(5, OUTPUT);
```

```
  pinMode(6, OUTPUT);
  pinMode(A5, INPUT);
  pinMode(A4, INPUT);
Serial.begin(9600);
}
void loop()
{
 x= digitalRead(8);
 y= analogRead(A5);
 z= analogRead(A4);
 Serial.println(x);
 Serial.println(y);
 Serial.println(z);
 temp = (double)z / 1024;
 temp = temp * 5;
 temp = temp - 0.5;
 temp = temp * 100;
 if ( (x>0) )
 {
  if ((y<550)&&(temp>30))
  {
   digitalWrite(5, HIGH);
   digitalWrite(6, HIGH);
  }
  else if((y<550)&&(temp<30))
  {
   digitalWrite(5, HIGH);
   digitalWrite(6, LOW);
  }
  else if((y>550)&&(temp>30))
```

```
  {
    digitalWrite(5, LOW);
    digitalWrite(6, HIGH);
  }
  else if((y>550)&&(temp<30))
  {
    digitalWrite(5, LOW);
    digitalWrite(6, LOW);
  }
 }
 else
 {
   digitalWrite(5, LOW);
   digitalWrite(6, LOW);
 }
}
```

TINKERCAD LINK:

https://www.tinkercad.com/things/713NApSXtgB?sharecode=s8RLhe_-2admtg6QWvGH9taoQWgOWbyp0-ShCdXPHQ8