Assignment-1
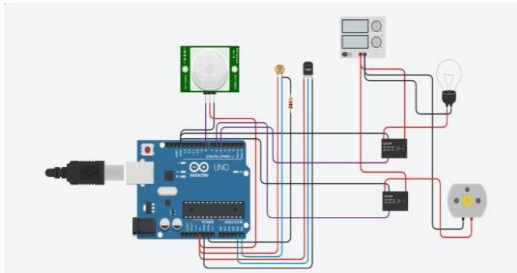
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CIRCUITDIAGRAM

PROGRAMCODE:

```
Floatx,y,z,temp;
void    setup()
{pinMode(8,INPUT);pin
Mode(5,
        OUTPUT);pinMo
de(6,
        OUTPUT);pinMo
de(A5,INPUT);pinMode(
A4,INPUT);Serial.begin(9
600);}void      loop()
{x=
        digitalRead(8);y
 =
        analogRead(A5);
 z=analogRead(A4);
   Serial.println(x);
```

```
    Serial.println(y);
Serial.println(z);temp=(do
uble)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);digital
      Write(6,
                  LOW);}elsei
      f((y>550)&&(temp>30))
      {
      digitalWrite(5,LOW);digital
      Write(6,
                  HIGH);}else
      if((y>550)&&(temp<30))
      {digitalWrite(5,LOW);digitalWrite(6,     LOW);
      }}else
    {digitalWrite(5,LOW);
     digitalWrite(6,LOW);
    }
  }
```