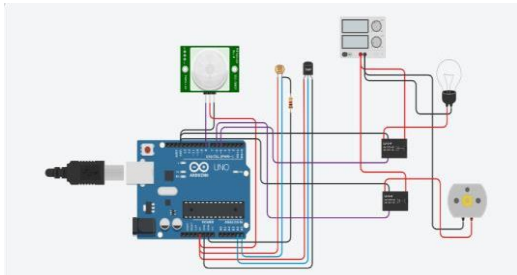


Assignment-1

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CIRCUITDIAGRAM



PROGRAMCODE:

```
Float x,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=(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);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);
}
}

```