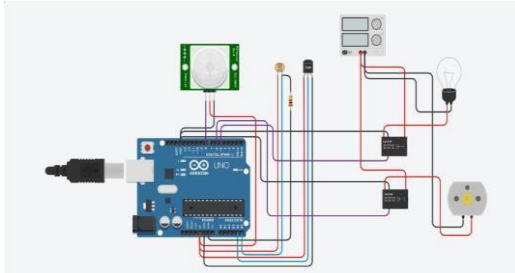


Assignment-1

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CIRCUIT DIAGRAM:



PROGRAM CODE:

```
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);
    }
}
}

```