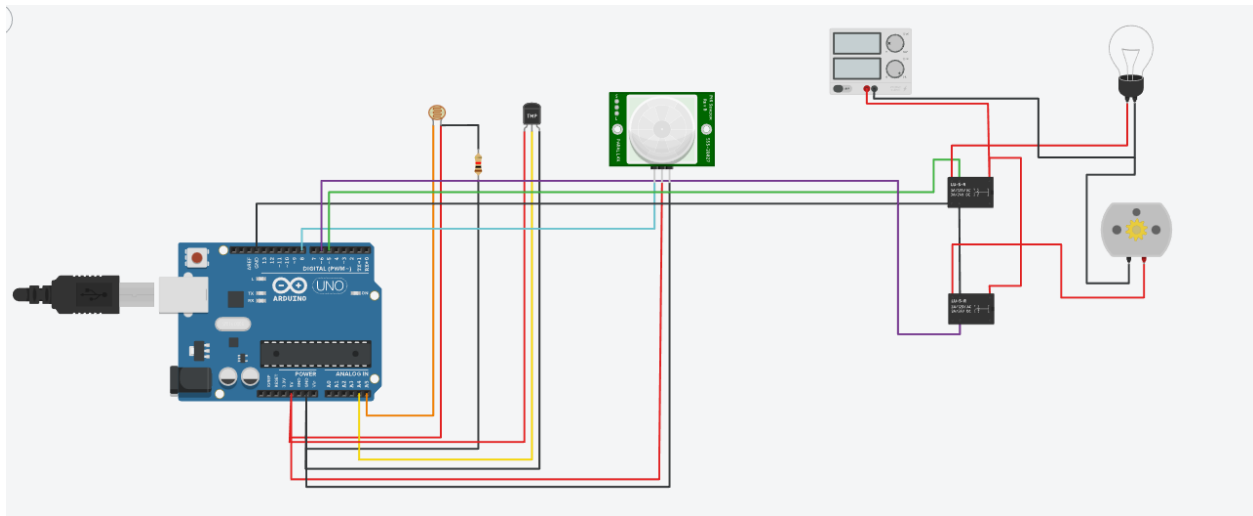


ASSESSMENT – 1



Coding :

```
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);  
}  
}
```