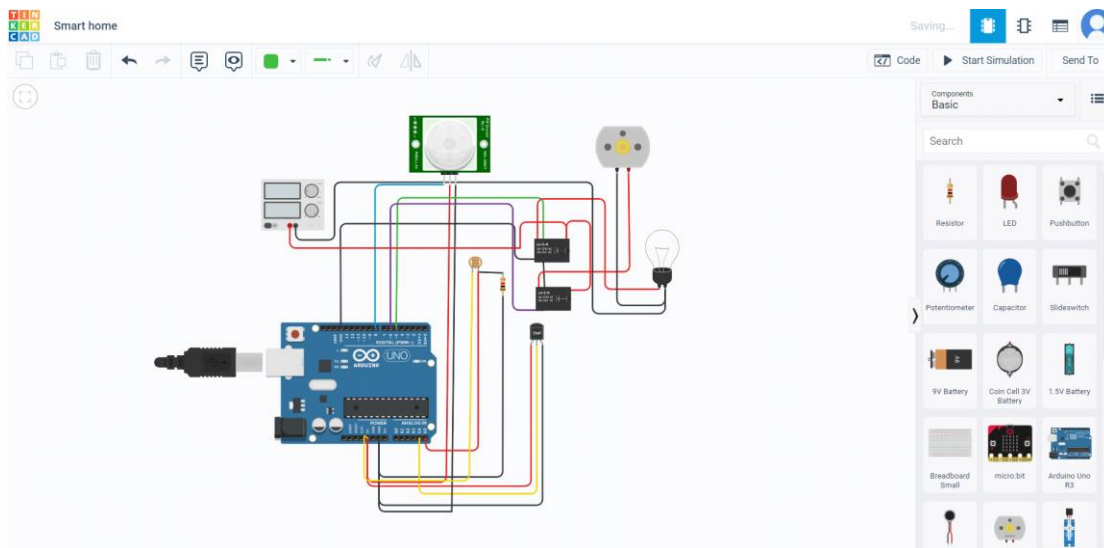


CIRCUIT:



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);  
}  
}
```