

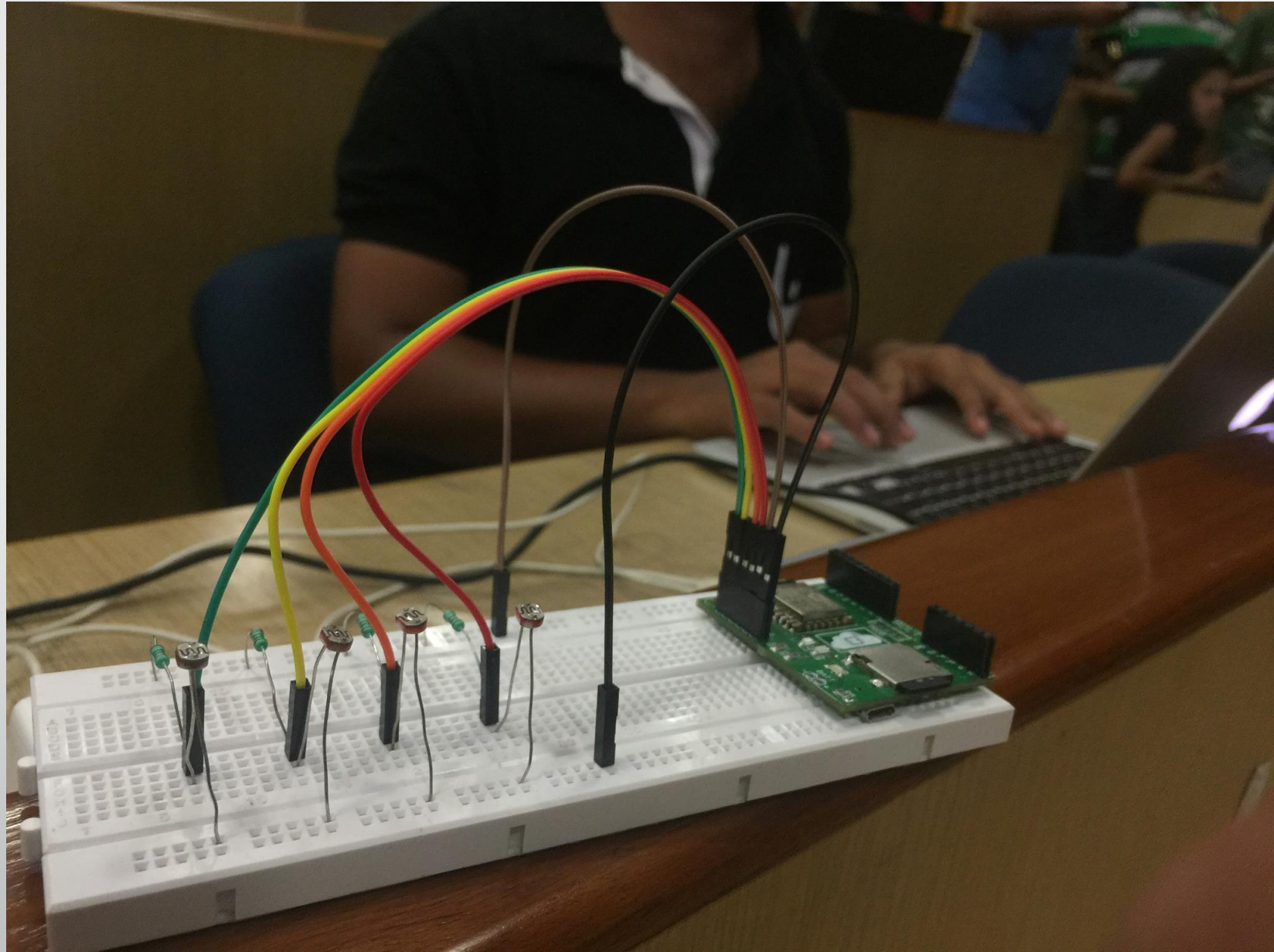


Light Dependent Airlock for DOOR

--Small Changes can make a BIG difference.....

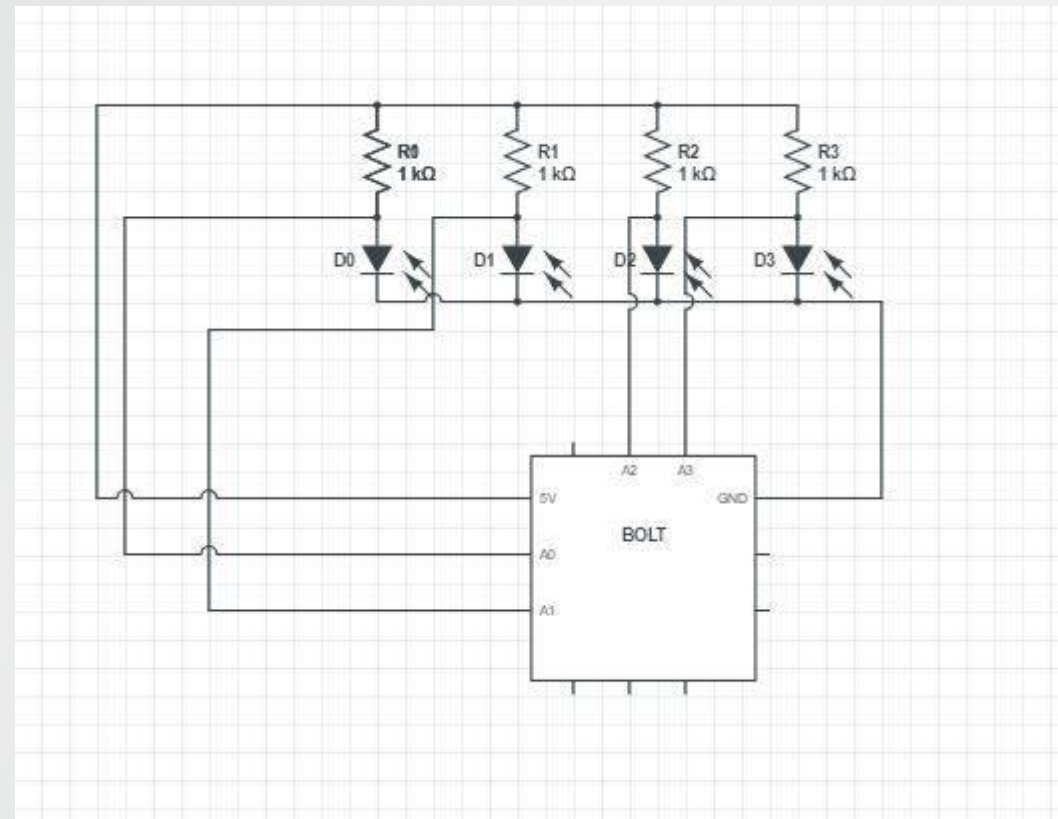
#BoltIot
#Techniche

LIGHT DEPENDENT AIRLOCK FOR DOOR



Equipment used !!

- Bolt IoT - 01
- Bread Board – 01
- Jumper Wires – 06
- USB Cable -01
- Light Dependant Resistances – 04
- Resistances (1 k ohm) – 04
- Laptop – 01
- Smart Phone -01



Circuit Diagram of the Project

CODE OF MY PROJECT !!!

```
<!DOCTYPEHTML>
<html>
  <head>
    <meta charset="UTF-8">
    <Title>Door Lock Opener !!!</Title>
    <link rel="shortcut icon" type="image/x-icon" href="1.ico">
    <script type="text/javascript" src="/serveFile?filename=bolt.js"> setDebug(true);
  </script>
  </head>
  <body bgcolor="#C2DFFF">
    <h2 Font-family="Arial" align="center"><b>PASSWORD PLEASE</b></h2>
    <p>* Please touch the respective lock pattern to open the door !!! :)</p>
    <button type="button" onclick="lock();">Click here to Unlock !</button>
```

```
<script type="text/javascript">
```

```
var a = 1;
```

```
var b = 0;
```

```
function Voltagedrop1(){
```

```
    var xmlhttp = new XMLHttpRequest();
```

```
    xmlhttp.onreadystatechange = function() {
```

```
        if (xmlhttp.readyState == 4 && xmlhttp.status == 200) {
```

```
            var obj = JSON.parse(xmlhttp.responseText);
```

```
            if(obj.success=="1")
```

```
                {
```

```
                    if (obj.value >=980){
```

```
                        return 1;
```

```
                    } else {
```

```
                        return 0;
```

```
}
```

```
    } else {  
        return 0;  
    }
```

```
}
```

```
}
```

```
}
```

```
xmlhttp.open("GET", "/analogRead?pin=A0", true);  
xmlhttp.send();
```

```
}
```

```
function Voltagedrop2(){  
    var xmlhttp = new XMLHttpRequest();  
    xmlhttp.onreadystatechange = function() {  
        if (xmlhttp.readyState == 4 && xmlhttp.status == 200) {  
            var obj = JSON.parse(xmlhttp.responseText);  
            if(obj.success=="1")  
            {  
                if (obj.value >= 980){  
                    return 1;  
                }  
            }  
        }  
    }  
}
```

```
} else {
```

```
    return 0;
```

```
}
```

```
} else {
```

```
    return 0;
```

```
}
```

```
}
```

```
}
```

```
xmlhttp.open("GET", "/analogRead?pin=A1", true);
```

```
xmlhttp.send();
```

```
}
```

```
function Voltagedrop3(){
```

```
    var xmlhttp = new XMLHttpRequest();
```

```
    xmlhttp.onreadystatechange = function() {
```

```
        if (xmlhttp.readyState == 4 && xmlhttp.status == 200) {
```

```
            var obj = JSON.parse(xmlhttp.responseText);
```

```
            if(obj.success=="1")
```

```
            {
```

```
                if (obj.value >= 980){
```

```
                    return 1;
```

```
                } else {
```

```
                    return 0;
```



```
        }
    } else {
        return 0;
    }
}
}
xmlhttp.open("GET","/analogRead?pin=A2",true);
xmlhttp.send();
}
function Voltagedrop4(){
    var xmlhttp = new XMLHttpRequest();
    xmlhttp.onreadystatechange = function() {
        if (xmlhttp.readyState == 4 && xmlhttp.status == 200) {
            var obj = JSON.parse(xmlhttp.responseText);
            if(obj.success=="1")
            {
                if (obj.value >=980){
                    return 1;
                } else {
                    return 0;
                }
            }
        }
    }
}
```

```
}  
    } else {  
        return o;  
    }  
}  
}  
xmlhttp.open("GET","/analogRead?pin=A3",true);  
xmlhttp.send();  
}  
function lock(){  
    if (a == Voltagedrop1() && b == Voltagedrop2() && b == Voltagedrop3()  
&& b == Voltagedrop4() ) {  
        x();  
    }  
    else{  
        Alert("Invalid Password");  
    }  
}  
function x(){  
    if(b == Voltagedrop1() && a == Voltagedrop2() && b == Voltagedrop3()  
&& b ==
```

```
Voltagedrop4() ){
    y();
}
else{
    Alert("Invalid Password");
}
}
function y(){
    if(b == Voltagedrop1() && b == Voltagedrop2() && a == Voltagedrop3()
&& b == Voltagedrop4() ){
        z();
    }
    else{
        Alert("Invalid Password");
    }
}
function z(){
    if(b == Voltagedrop1() && b == Voltagedrop2() && b == Voltagedrop3()
&& a == Voltagedrop4() ){
```

```
g();
```

```
}
```

```
else{
```

```
    Alert("Invalid Password");
```

```
}
```

```
}
```

```
function g(){
```

```
    var name = "Your Lock is Unlocked !!!!!"; // Declare a local variable
```

```
    document.write(name);
```

```
}
```

```
setTimeout(x,500);
```

```
setTimeout(y,500);
```

```
setTimeout(z,500);
```

```
</script>
```

```
</body>
```

```
</html>
```

The look of the Webpage used for this Project !!!!



Functions ::


1. Door opens when a particular pattern is followed in tapping the light dependent resistors.
2. It sends a status message to the Facebook account whenever lock is opened or wrong password is pressed .(This is not implemented but we can do that if it has a internet connection)



YouTube link of the Video :

<https://youtu.be/nPWFOmxHLVI>

Instructables link of the Project :



Submitted by
Sai Bhaskar Devatha
Anil Mukkoti
Rakesh Abothula
Pranith Kampelly
- Fachas, IITG