

Assignment -1

Personal Assistance For Seniors Who Are Self-Reliant

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|---------------------|-------------------|
| Assignment Date | 08 September 2022 |
| Student Name | Pavan kumar.k |
| Student Roll Number | 710119104013 |
| Maximum Marks | 2 Marks |

OBJECTIVE:

To improve the quality of life and convenience in the home, aswell as residents safety and security.

COMPONENT REQUIRED:

| Name | Quantity | Component |
|------|----------|-----------|
|------|----------|-----------|

| | | |
|----|---|----------------|
| U1 | 1 | Arduino Uno R3 |
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|------|---|--|
| PIR1 | 1 | 5.101209378474654 , -282.5333908957909 , -302.2762218258411 PIR Sensor |
|------|---|--|

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| L1 | 1 | Light bulb |
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|----|---|------------|
| K1 | 1 | Relay SPDT |
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| GAS1 | 1 | Gas Sensor |
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| R1 | 1 | 10 kΩ Resistor |
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|----|---|----------------------------|
| U2 | 1 | Temperature Sensor [TMP36] |
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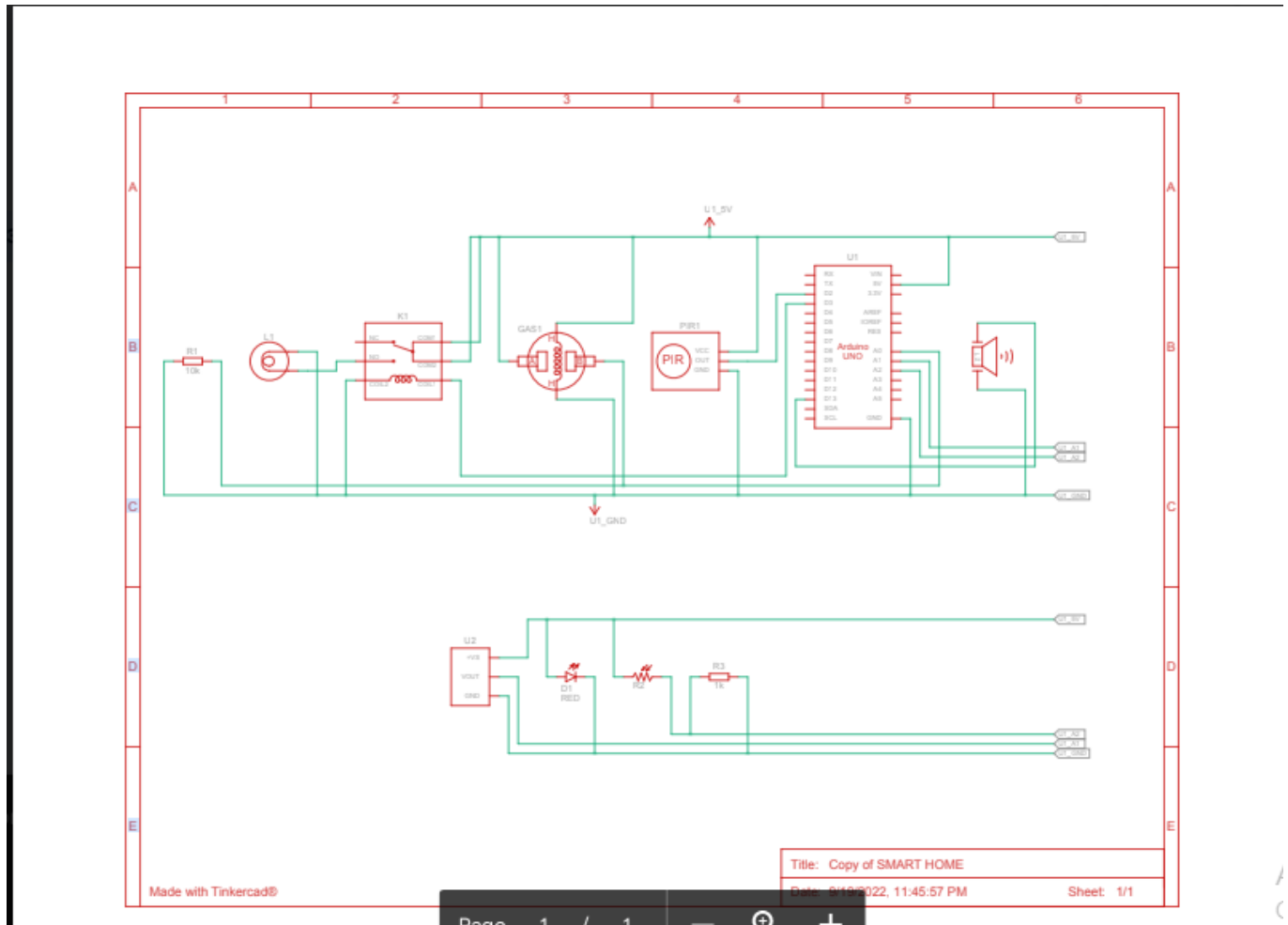
| | | |
|----|---|---------------|
| R3 | 1 | 1 kΩ Resistor |
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|----|---|---------------|
| R2 | 1 | Photoresistor |
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|--------|---|-------|
| PIEZO1 | 1 | Piezo |
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|----|---|---------|
| D1 | 1 | Red LED |
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BLOCK DIAGRAM :



SIMULATION LINK:

<https://www.tinkercad.com/things/af2f5Pnx0Jl-copy-of-smart-home/editel>

OUTPUT :

