| Python with Robots<br>**Mission 9 Lab Data Sheet – OBJ 3, 6** | **Name:** |
|---|---|

**Obj. 3 Battery Tester with Load:  Follow these steps:**
1. Start a new file and create a test program as shown ->
2. Start with no LEDS turned on. Run the code.
3. Check the REPL console.
4. Record the battery voltage and percentage.
5. Repeat, lighting another LED each time.

```python
from codebot import *
from time import sleep_ms
leds.user(0b00000000) # Turn on LEDs
v = system.pwr_volts
pct = (v / 2) - 2
print(v, pct)
leds.user(0b00000000) # Turn off LEDs
```

| LEDs turned on | Voltage | Percentage |
|---|---|---|
| 0 | | |
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |

**Obj. 6 Temperature Check:  Follow these steps:**
1. Use your code from Objective 6
2. Start with sleep_ms(200) and record the average temperature
3. Repeat the experiment, changing the amount of delay. Try faster times and slower times.
4. Record the average temperature for each delay.

| Amount of delay | Average temperature | |
|---|---|---|
| 200 | | |
| | | |
| | | |
| | | |
| | | |
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