

Hosted by:



BMES
at UCI
2023 - 2024

☆

You Light Up My !

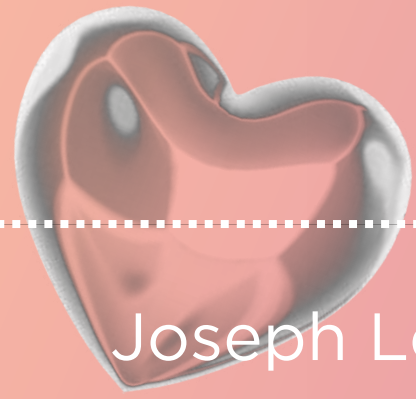
Presented by Varu Vummidi


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Sign-In!



Groups so far



Joseph Lee, Yusuf Khan, Zeeshan Iqbal	Ananya Parimoo, Sarina Behera, Beatrice Dayrit, Aarya Joshi	Lincoln Bean, Kailash Voleti, Karthik Sajeev, Maxwell Pen, Charles Bocks, Jack Shepherd
Ethan Kim, Harsh Dighekar, Naveen Trivedi, Kareem Assaf, Sani Swaro, Yassmin Assaf	Tamara Le, Alice Do, Jenny Huang, Marcela Almero	Akshara Gobbur, Anvi Murarka, Advita Bathole, Advika Gehlot
Rocco Mahoney, Drew Koslosky, Caden Metcalf, Daniel Reas, Rizan Khan Muhammad	Dylan Davis, Jacob Taur, Amogh Adluri, Saish Gawankar, Aditya Joshi	Kenzi Tang, Liam McCarthy, Maddie Bui, Cash Espinoza, Charles Barto
Parsa Naji, Preston Walker	Caitlyn Ritchie, Suyeon Hong, Max Vuong + 1	Cailyn Tran, Katherine Reigne Mariano, Kartik Swain, Elaina Tran, Dang Ly, Michelle Shim
Arisha Al Faruque, David Kim, Bryce Park, Melody Tajik	Taheem Khan, Emily Ganguly, Elise Lee	





**Have you downloaded
Arduino? 🤔**

<https://www.arduino.cc/en/software>

Or Google “Arduino download”





Important Disclaimers

1

Food + Arduino = no-go

2

Keep water bottles in backpacks

3

Work on your circuit disconnected from any power source

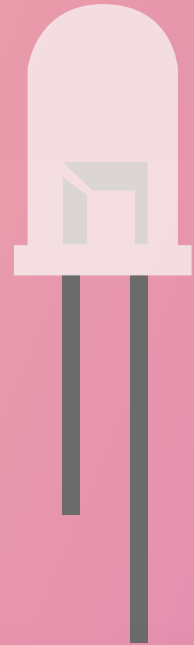
4

Do not connect pulse sensors to charging laptops.





Goals for today



Reinforce
previous
knowledge

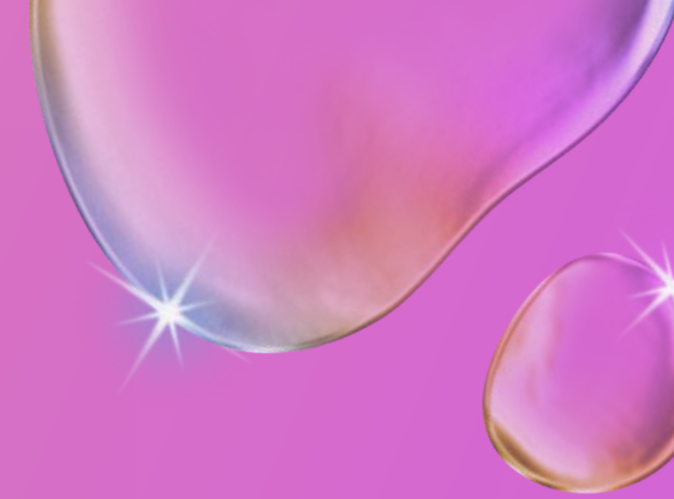
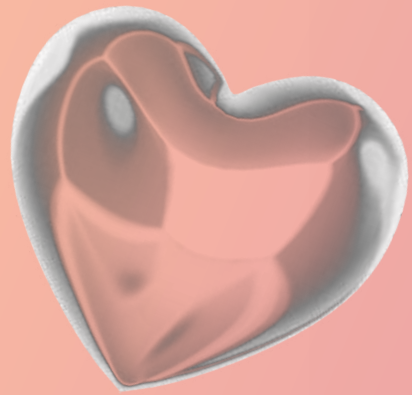


Learn something
new



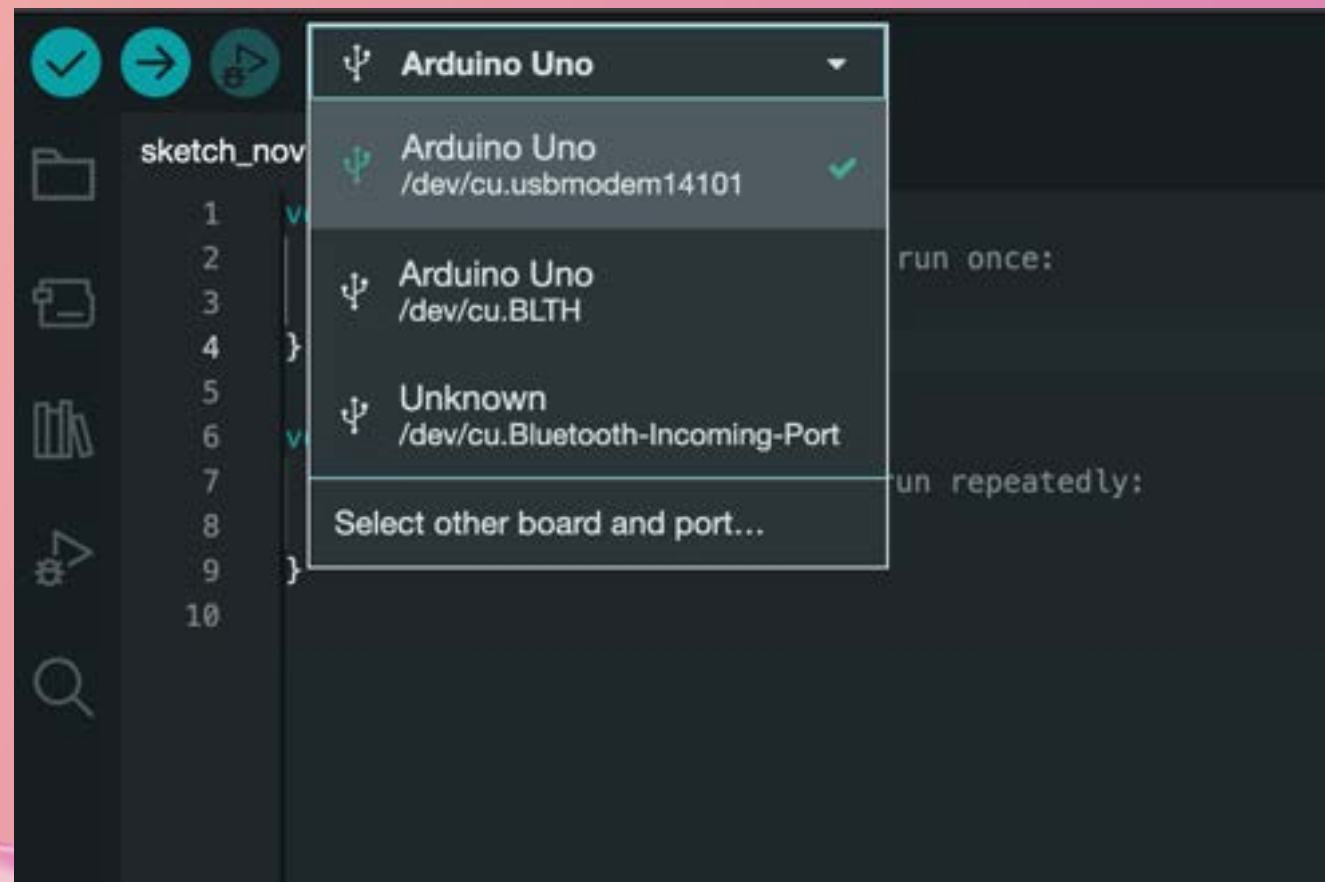
Apply new
knowledge



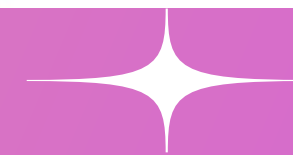


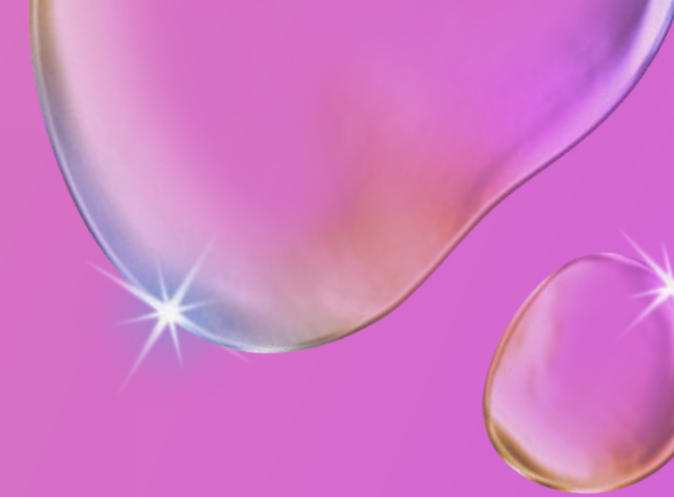
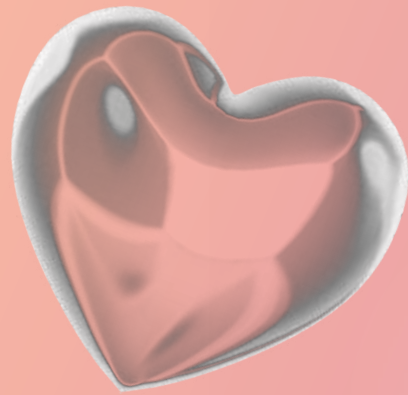
Getting started

- Set up the port into computer



into Arduino

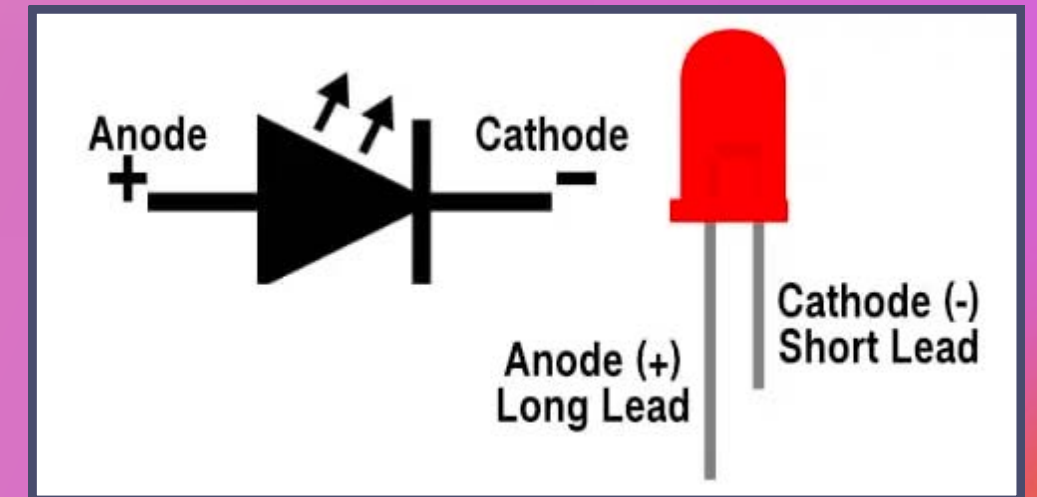
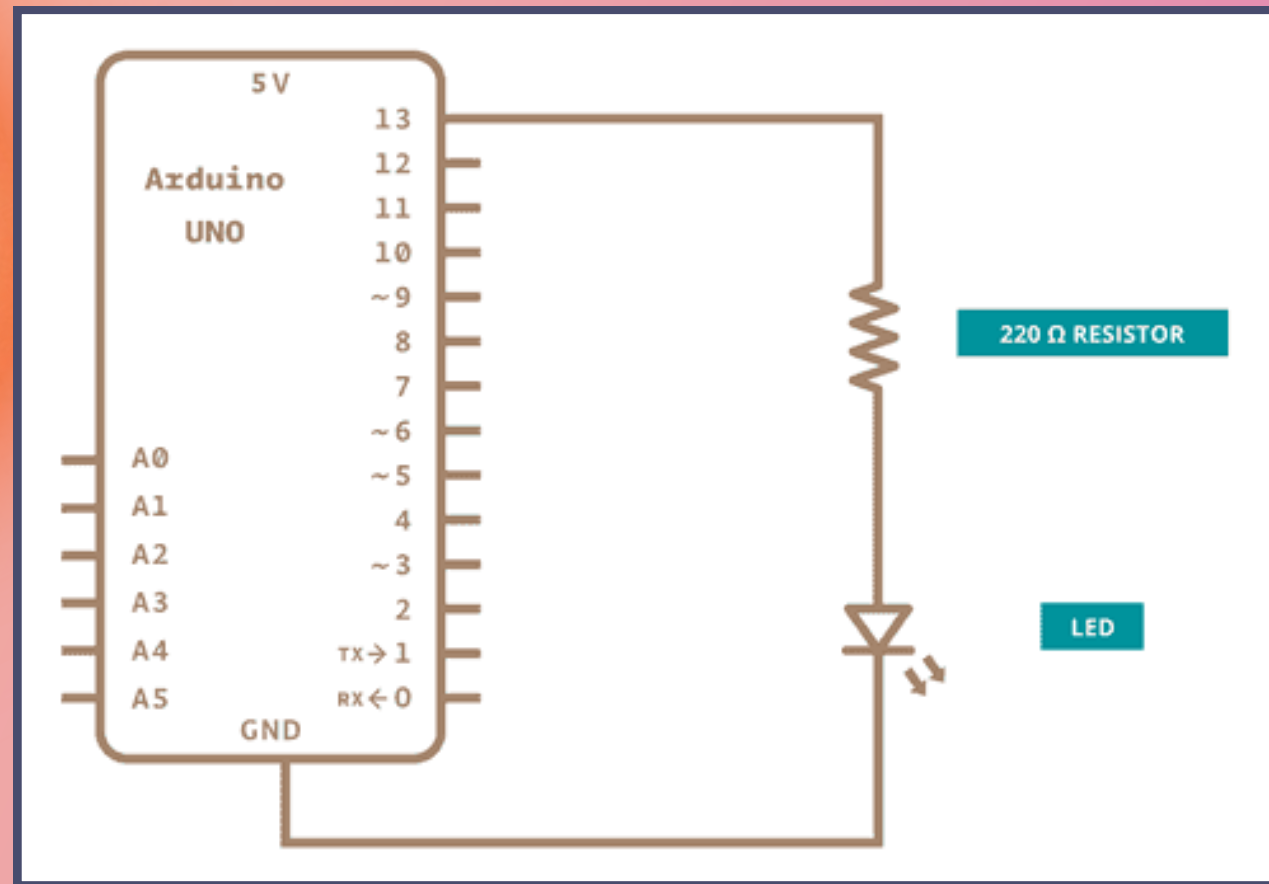




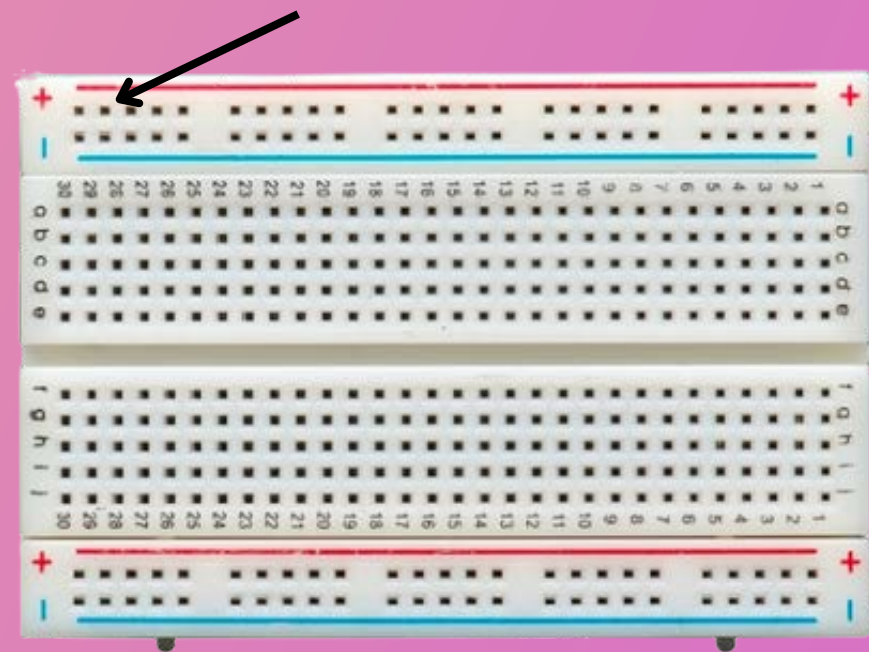
Getting started

- Lighting up an LED

Circuit diagram

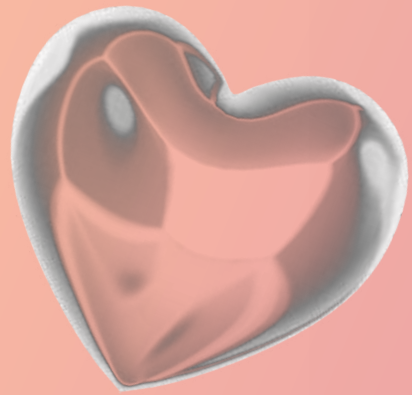


1) supply power



2) build circuit





****Do not connect pulse sensors to charging laptops.****

Getting started

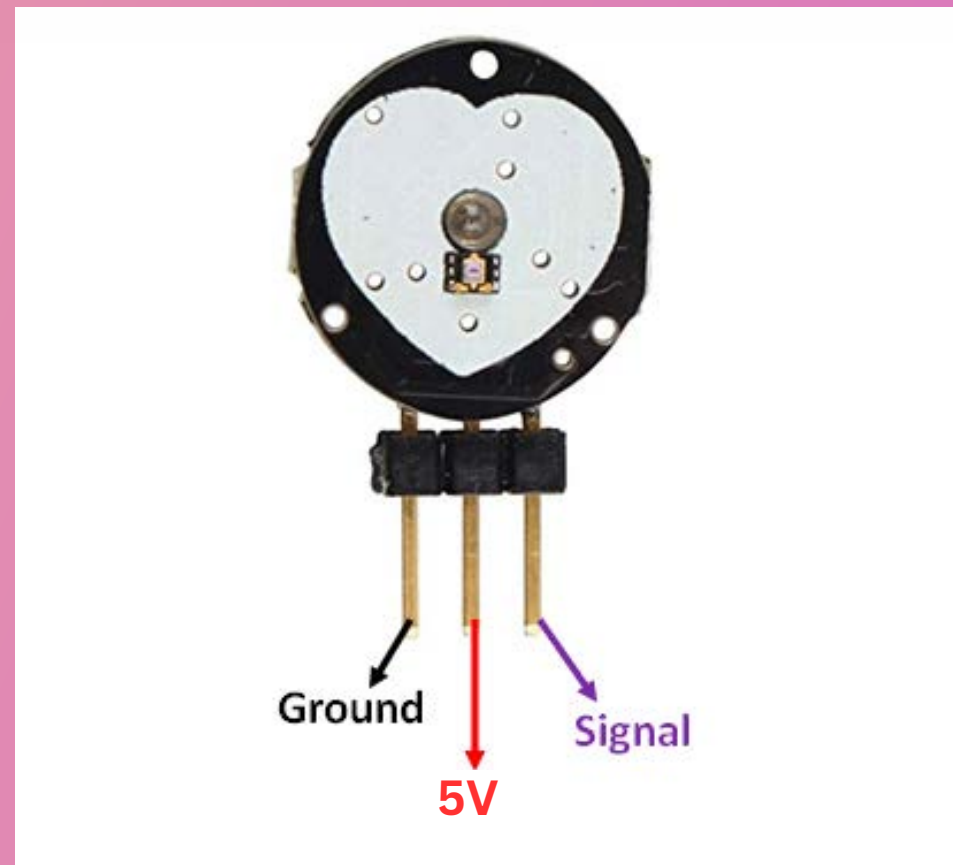
Female to female wires



Male to male wires



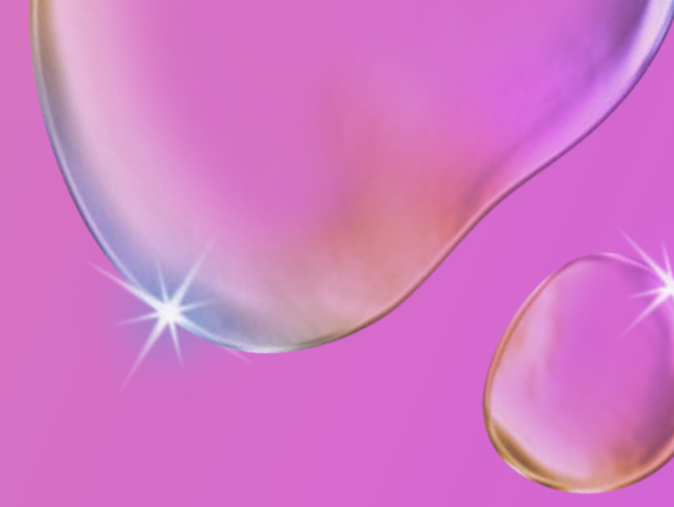
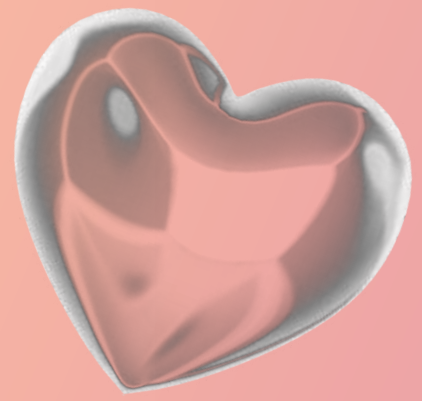
- Pulse sensors



“Why is there tape on the back of the sensor?”

Sensor signal --> Analog

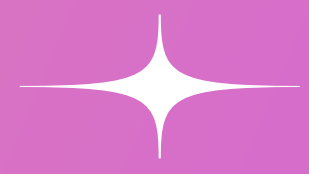




Some encouragement

Whether this is your first or 100th time working with Arduino, you might struggle. And that's okay! Keep rewiring, rewriting code, and always try again.

(This is how the professionals do it, too!)





Tracks

Beginner level

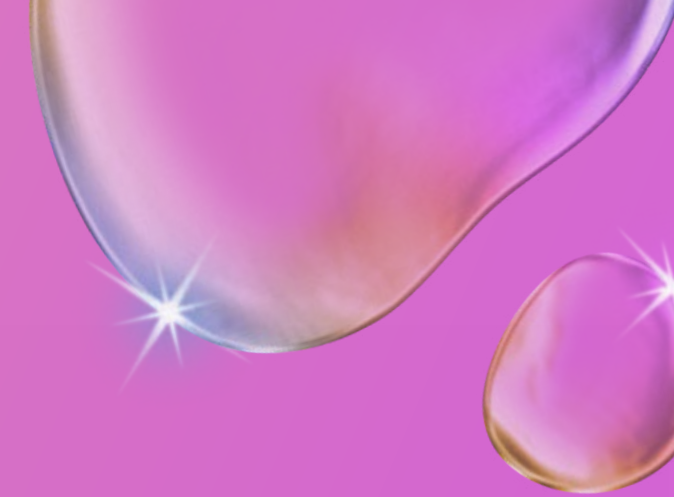
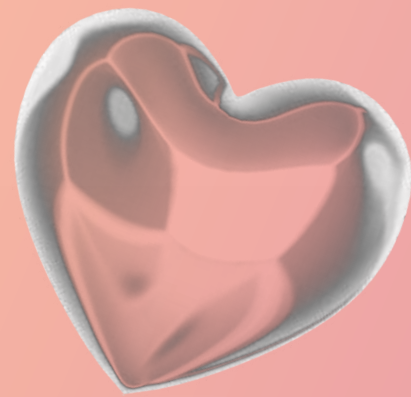


Advanced level



Form groups of 4-5 people





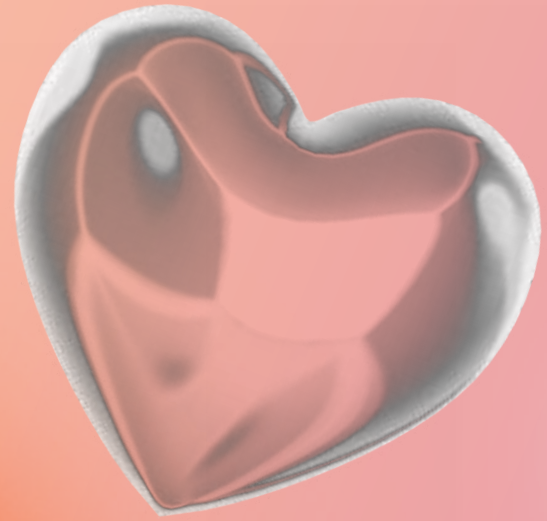
Keep testing at home!

<https://wokwi.com/projects/new/arduino-uno>

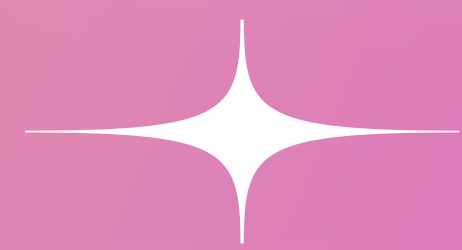
These slides are available on our Jr. BME website:

<https://jrbmesuci.weebly.com>





**Please remain
seated while we
make sure
everything gets
back...**





(Anonymous) Feedback form:

Help us make our workshops better for you!



**Thank
You**

