

Lab 1A: Course Setup

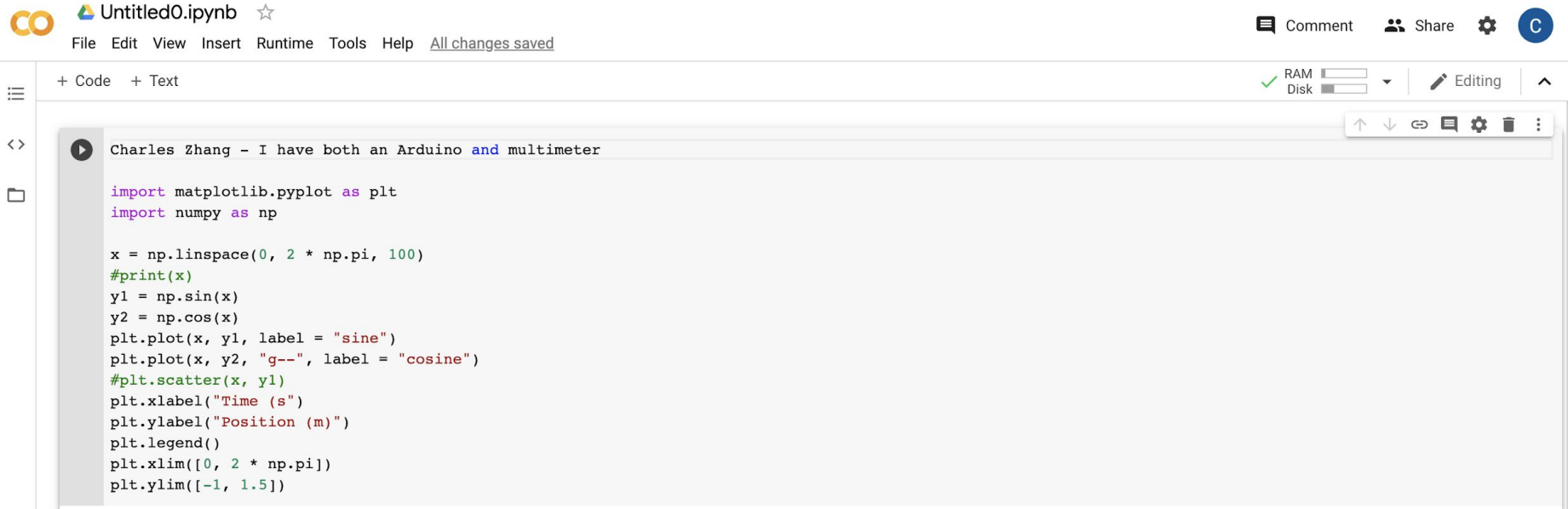
Charles Zhang

Create your Google Drive folder and paste a screenshot here

The screenshot shows the Google Drive interface. At the top, there is a search bar labeled 'Search Drive'. To the right of the search bar are icons for a checkmark, a question mark, a gear, a grid of dots, and a blue square with a white 'U'. Below the search bar, the breadcrumb navigation shows 'Shared with me > Lab 12' followed by a group of three people icon. On the right side of the breadcrumb is a list view icon. Below the breadcrumb, the word 'Folders' is on the left, and 'Name ↑' is on the right. There are eight folder cards displayed in a 2x4 grid. The first card is 'Kim, Haley' and is highlighted with a blue border. The second card is 'Maxfield, Thomas'. The third card is 'Ponniah, Divya'. The fourth card is 'Rossmango, Brendan'. The fifth card is 'Simmons, Alyssa'. The sixth card is 'Vaishampayan, Neil'. The seventh card is 'Wouters, Mathis'. The eighth card is 'Zhang, Charles' and is circled with a red oval.

Folders		Name ↑	
Kim, Haley	Maxfield, Thomas	Ponniah, Divya	Rossmango, Brendan
Simmons, Alyssa	Vaishampayan, Neil	Wouters, Mathis	Zhang, Charles

Create a Jupyter notebook and paste a screenshot here. Include in your notebook your name, and whether or not you have an Arduino and multimeter.



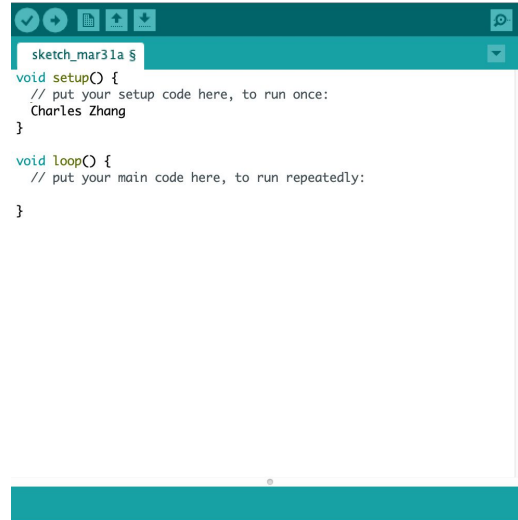
The screenshot shows a Jupyter Notebook interface. At the top, there's a toolbar with icons for File, Edit, View, Insert, Runtime, Tools, and Help. The current file is named "Untitled0.ipynb". On the right side, there are buttons for Comment, Share, and a settings icon. Below the toolbar, there's a tab for "Code" and a "Text" tab. The main area contains a code cell with the following Python code:

```
import matplotlib.pyplot as plt
import numpy as np

x = np.linspace(0, 2 * np.pi, 100)
#print(x)
y1 = np.sin(x)
y2 = np.cos(x)
plt.plot(x, y1, label = "sine")
plt.plot(x, y2, "g--", label = "cosine")
#plt.scatter(x, y1)
plt.xlabel("Time (s)")
plt.ylabel("Position (m)")
plt.legend()
plt.xlim([0, 2 * np.pi])
plt.ylim([-1, 1.5])
```

On the right side of the code cell, there's a small toolbar with icons for undo, redo, link, comment, settings, and delete.

Download and install the Arduino IDE software. This does not require a physical Arduino. Take a screenshot of your name typed in the text box



```
sketch_mar31a $  
void setup() {  
  // put your setup code here, to run once:  
  Charles Zhang  
}  
  
void loop() {  
  // put your main code here, to run repeatedly:  
}
```