INFO 102 Lab 10: APIs

Your info: Name: _____ Net ID: _____

Your partner's info: Name: _____ Net ID: _____

We will learn about **using APIs** on the following platform for today's activity: **go.illinois.edu/102api**
Login using the following username: **{{Username}}** Your password is: **{{Password}}**

You will login online using the username above. You will use the system with your partner.
Use the system as a tutorial, and fill out the worksheet working with your partner.

Q1a: Go through the pages explaining **Example 1.** Then, go back to **Example 1.** Modify the code to collect restaurant ratings for Urbana. What is the **6th** restaurant in Urbana?

Q1b: Go through the pages explaining **Example 1.** Then, go back to **Example 1.** What happens if you enter a city aside from Champaign or Urbana? Discuss with your partner.

Q1c: After completing Example 1, go to the following URL:
https://one02-api-fastapi.onrender.com/api/restaurants?**count=6**&**location=urbana**

What do you see? Discuss how visiting a URL in your browser could be similar to the program you run for Example 1 with your partner.

Q2: Move to **Example 2** and go through the pages explaining Example 2. This example uses a POST request as opposed to a GET request. Discuss with your partner and write down how POST and GET requests are different.

Q3: Complete Exercise 1. Were you able to guess the number correctly? Did you face any challenges?

Q4: Look at the following URL:

```
https://www.amazon.com/s?k=lego+sets&i=toys-and-games&rh=n%3A165793011%2Cp_36%3A1500-12000%2Cp_n_feature_six_browse-bin%3A23980129011&s=price-asc-rank&dc&qid=1744125975
```

Discuss what these URL could be searching for and what the parameters could mean with your partner. Write down your guess below. If you want to visit the site, you can use the short URL: go.illinois.edu/102amazon

Q5: Think of **one task** that would require you to interact with an API. You can look at the examples in the tutorial for inspiration, but try to write down something different.

Q6: Discuss with your partner: are APIs similar to web scraping? Can you think of one task that can be achieved with both web scraping and APIs?

a)

b) For that task, are there any advantages to using one approach over the other?

When you're done, check out with a TA or CA, and hand over this completed worksheet.
Bye!