Flask Activity: Colorful Routes Race!
(Student Instructions)

PURPOSE: To become familiar with flask routes, pass information as variables and manipulate the url variables to render custom content in the client's browser.

GOAL: Get your team to complete the following tasks before the timer runs out.

ACHIEVEMENTS:
- First group to complete all tasks or the most tasks → Super bragging rights
- Group with the most novel extra feature → Some extra bragging rights
- Group with the most learning notes / new insights → Wisdom points!

DIRECTIONS:
Come up with a team name, then complete the following tasks. For each task, one person should "drive", that is, share their screen as you all complete the task, but everyone can help "navigate". Switch drivers throughout so every team member has a chance to drive.

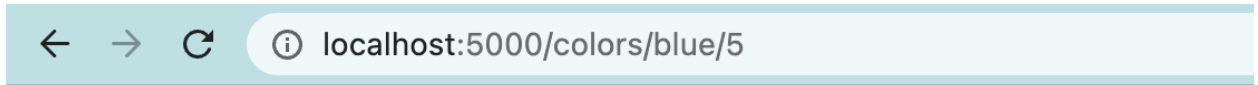## And now... THE RACE!

Part 1: Predict the Output
Examine the code you were given. Do not run the app! Look at the following urls. Once the application is running, what will happen when you type each of these urls in your browser? What will show up in your terminal? What will show up in your browser? Will there be an error? If so, will it show up in your browser, your terminal or both?

When you type this url in your browser...

1. localhost:5000
2. localhost:5000/colors/red
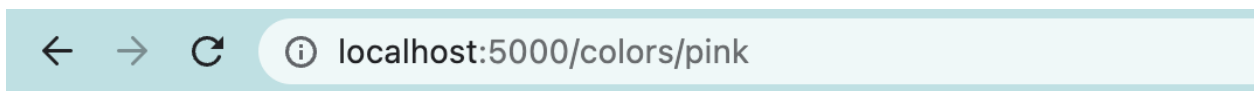3. localhost:5000/colors/blue/8

Part 2: Coding Challenge!

4. **CODE:** Fix the color_multiplier method so that it shows the color name as many times as the number as below.
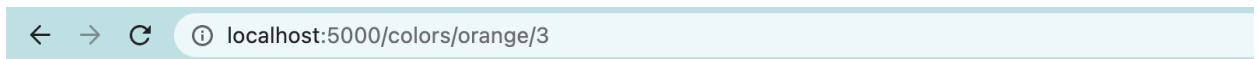
localhost:5000/colors/blue/5

blueblueblueblueblue

5. **RESEARCH:** For the color_multiplier function - How would you allow *only* integers to be passed as the `number` path variable through the url ?
6. **CODE:** change the response in the show_color route, such that it displays as a heading tag and shows the background color matching that of the color that was typed in the url as shown below. For this exercise do not create an actual html file/template.

localhost:5000/colors/pink

pink

7. **NINJA BONUS CODE CHALLENGE!** Add that same background coloring to the color_multiplier route.

localhost:5000/colors/orange/3

orange

orange

orange

8. **CREATE:** Work together to add something extra all your own to the application. Points for comedy, creativity or ingenuity!
9. **REVIEW:** Write down anything new you learned or gained from this activity. As always anyone from the group can contribute!