

CSCI 107, First Practicum – February 17, 2023

Submit your solutions in a file named *YourFirstName-YourLastName.py* to the CSCI 107 Practicum 1 Dropbox no later than 10:50 a.m.

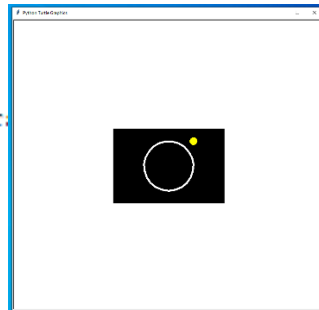
For the first practicum, you are going to recreate a simplified version of this camera app icon:



The program should prompt the user for (1) the height of the rectangular box that makes up the body of the camera, (2) the width of the rectangular box that makes up the body of the camera, (3) the color of the rectangular box that makes up the body of the camera, and (4) the color of the circular lens that appears in the body of the camera.

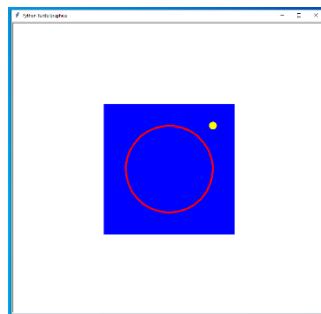
For example, here is one sample run of the program, along with its output:

```
===== RESTART: C:\User...
Enter camera height: 200
Enter camera width: 300
Enter camera color: black
Enter lens color: white
>>> |
```



And here is another:

```
===== RESTART:
Enter camera height: 350
Enter camera width: 350
Enter camera color: blue
Enter lens color: red
>>> |
```



Here are the specifications for the assignments

- Match the order of the input messages exactly
- Match the format of the input messages exactly
- The rectangle should be centered at $(0, 0)$
- The rectangle should have the user-specified height
- The rectangle should have the user-specified width
- The rectangle should be the user-specified color
- The rectangle should be drawn using a proper for loop
- The camera lens (the big open circle) should be centered at $(0, 0)$
- The camera lens should have the user-specified color
- The camera lens should have a width of 5
- The diameter of the camera lens should be $2/3$ of the height of the rectangle
- The camera's pinhole (the yellow circle) is located at coordinate $(r/3, r/3)$ where r is the height of the rectangle
- The camera's pinhole is produced by stamping a turtle of the proper shape
- The camera's pinhole is yellow