

LECTURE 4, CSCI 127
FALL 2022

Name:										
EmpID:										

1. Write down the names of your team members:

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2. Write directions (for another team to follow) to make a paper airplane.

Design:	Revised Design:

3. Wrap-up: On which topic do you wish we had spent more time? Why?

Welcome!

While you wait for the lecture begin, here's some things to do:

- **Lecture Preview:** The preview is available on Blackboard the day before lecture and can be repeated as many times as you would like until the start of lecture.
- **Schedule Your Upcoming Quizzes & Code Reviews:** Login to Blackboard, and make a reservation (link on left side menu).
- **Download the Lecture Slides:** You can find the slides for lecture as well as all the demos on the course webpage. Download them to follow along during class.
- **Chat with an Undergraduate Teaching Assistant (UTA):** The UTA's are here to help— ask questions before lecture and during group work.

Exercises

- Define color yellow in python in four ways:
 - use color name
 - use integer number in decimal system (base 10) for red/green/blue components
 - use fractional number for red/green/blue components
 - use hexadecimal number (base 16) for red/green/blue components.

- What is output of the following code?

```
1 string = "I love python!" #can we name string as str?
2
3 print(string [2:6])
4 print(string[-7:-1])
5 print(string [2:6:2])
6 print(string[-7:-1:2])
7
8 print(string[-1])
9 print(string[:-1])
10
11 #get a list of words from a sentence.
12 mylist = string[:-1].split(' ')
13 print(mylist)
14 print(len(mylist))
15 print(mylist[0])
```

```
16 print(mylist[0:2])
17 print(mylist[-1])
18 print(mylist[0::2])
19
20 #get the last letter of each elements in the list
21 abbr = ""
22 #mylist is ['I', 'love', 'python']
23 for word in mylist:
24     abbr = word[-1] + abbr #pad last letter of word to left of abbr
25                             #word[-1] means the last letter in word.
26
27 print(abbr)
28
29 abbr2 = ""
30 #mylist is ['I', 'love', 'python']
31 for word in mylist:
32     abbr2 += word[-1] #same as abbr2 = abbr2 + word[-1]
33                     #, ie, pad last letter of word to right of abbr2
34
35 print(abbr2)
```