Make sure you have the tutorial open when answering the following questions. All of the questions in this module use the Python Tutorial at:

<http://www.letslearnpython.com/learn/>

Note: You should use the black area of Repl to try the simple Python expressions listed in the questions below.

**Lesson 8: Lists – A Collection of Objects**

1. What is a list in Python? Explain in words and provide an example.

* A list in python is not understood because we use square brackets

1. Create a list of your favorite sports teams.
   1. Assign your list to a variable. Called “myTeams”

["myteam"]

* 1. Use the command print(myTeams) to confirm that your variable and your list are the same.

print ('my team')

1. Add a team to your list using “+”.
   1. Verify that + can be used to add two lists - it can be because that python can understand
   2. Write you Python code below

print ('my + team')

Create a list containing your favorite colour, your favorite number, and the name of someone you know. Show how to write this list in Python code below.  
["blue", 23, "sukhman"]

1. Do Python lists have to contain elements that are all the same data type? Answer True / False.

* False

**Lesson 8: Lists – List Indexes**

1. What is the value of myTeams[0]? (Assuming that you have created a list of your favorite sports teams in the previous questions.)

* My value is 0

1. What is the list index of the last team in your list of favorite sports teams? Provide the Python code below.

["stephn curry", "cristiano ronaldo", "lioneli messi"]

'myTeams'[0]

1. Compare Python lists to Python strings.
   1. How are lists and strings similar? - the lists are the same as the strings because they both use quotations and they have the same meaning in python.
   2. How are they different?

* They are different because they both have different meanings to the quotations and symbols used

1. In the tutorial, why does typing “fruit [3]” produce an error?

* Typing “fruit [3]” creates an error because the quotations should have been on the inside and not around the square brackets. It should have been used for the word fruit only.

**Lesson 10: Loops – Counted Loops**

1. Use a counted loop to print out your list of favorite sports teams. Provide your code below.
   1. What is the function of “in”

The function of in is accepted and the way it works is because the format being used is correct.

1. Compare Counted Loops to Conditional Loops.
   1. How are they similar? - they are similar because they have some things that could be used in both programs
   2. How are they different? - they are different because they have different variables being used.