fop

6.11. Chapter Assessment

Check your understanding

Write a program that extracts the last three items in the list sports and assigns it to the variable last. Make sure to write your code so that it works no matter how many items are in the list. 6/9/2020, 2:00:00 PM - 2 of 3 1 sports = ['cricket', 'football', 'volleyball', 'baseball', 'softball', 'track and f 3 print(last) ['curling', 'ping pong', 'hockey'] Activity: 2 -- ActiveCode (assess_ac_2_1_1_2) Expected Result Notes Value Value Testing that the value of last is the last three Expand Differences ['cur...key'] Pass ['cur...key'] Expand Differences Pass __ma...ject> Hardcode check You passed: 100.0% of the tests

6.10. Exercises"

D. Exercises

Write code that combines the following variables so that the sentence "You are doing a great job, keep it up!" is assigned to the variable $_{\text{message}}$. Do not edit the values assigned to $_{\text{by}}$, $_{\text{az}}$, $_{\text{io}}$, or $_{\text{qy}}$.

```
Save & Run

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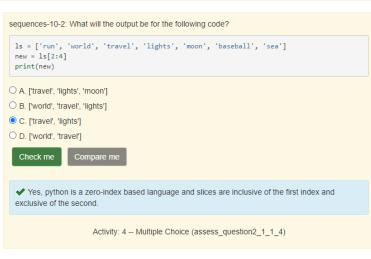
Show in CodeLens

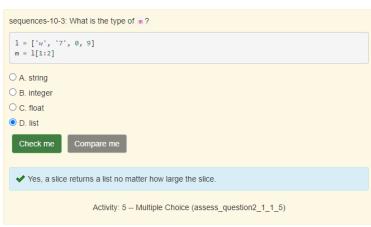
1 by = "You are"
2 az = "doing a great "
3 io = "job"
4 qy = "keep it up!"
5 message = by+" "+az+io+", "+qy
6 print (message)

7
```



You are doing a great job, keep it up! Activity: 3 -- ActiveCode (assess_ac_2_1_1_3) Actual Expected Result Notes Value Value 'You are' 'You are' Testing original variables. 'doing a 'doing a Pass Testing original variables. great ' great ' Pass Testing original variables. 'job' 'job' keep it Pass 'keep it up!' Testing original variables. up! 'You a...t Testing that the value of message is what was 'You a...t Pass Expand Differences up! up! You a...t 'by = Testing for hardcoding (Don't worry about actual Expand Differences up! .e)\n\n\n' and expected values). You passed: 100.0% of the tests





sequences-10-4: What is the type of m?

1 = ['w', '7', 0, 9]
m = 1[1]

A string
B. integer
C. float
D. list

Check me

Compare me

Yes, the quotes around the number mean that this is a string.

Activity: 6 -- Multiple Choice (assess_question2_1_1_6)

```
sequences-10-5: What is the type of x?
     b = "My, what a lovely day"
     x = b.split(',')
    O A. string
    O B. integer
    O C. float
     D. list
                    Compare me
      Check me

✓ Yes, the .split() method returns a list.

                           Activity: 7 -- Multiple Choice (assess_question2_1_1_7)
     sequences-10-6: What is the type of a?
      b = "My, what a lovely day"
     x = b.split(',')
z = "".join(x)
     y = z.split()
a = "".join(y)
    A. string
    O B. integer
     O C. float
     O D. list
      Check me
                    Compare me

✓ Yes, the string is split into a list, then joined back into a string, then split again, and finally joined.

      back into a string.
                           Activity: 8 -- Multiple Choice (assess_question2_1_1_8)
   Write code to determine how many 9's are in the list nums and assign that value to the variable how_many
  Do not use a for loop to do this.
                  Save & Run
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                                                                   Show in CodeLens
 1 nums = [4, 2, 23.4, 9, 545, 9, 1, 234.001, 5, 49, 8, 9, 34, 52, 1, -2, 9.1, 4]
 2 how many = nums.count(9)
 3 print (how many)
                               Activity: 9 -- ActiveCode (assess_ac2_1_1_9)
   Result Actual Value Expected Value
                                                       Notes
    Pass
                                         Testing that how_many is set correctly
    Pass
                         'nums ...ny)\n\n'
                                         Testing that you didn't use a for loop.
                                                                               Expand Differences
               'for'
   Pass
            None
                            False
                                                  Hardcode check
   You passed: 100.0% of the tests
  Write code that uses slicing to get rid of the the second 8 so that here are only two 8's in the list bound to
  the variable nums.
                                   6/9/2020, 2:54:31 PM - 5 of 5
                                                                   Show in CodeLens
1 nums = [4. 2. 8. 23.4. 8. 9. 545. 9. 1. 234.001. 5. 49. 8. 9 . 34. 52. 1. -2. 9.1.
```

```
2 nums = nums[:4]+nums[5:]
 3 print (nums)
[4, 2, 8, 23.4, 9, 545, 9, 1, 234.001, 5, 49, 8, 9, 34, 52, 1, -2, 9.1, 4]
                         Activity: 10 -- ActiveCode (assess_ac2_1_1_10)
           Actual
                   Expected
   Result
                                           Notes
           Value
                    Value
   Pass
         [4, 2...1, 4] [4, 2...1, 4]
                               Testing that nums is set correctly.
                                                                 Expand Differences
                             Testing that you are using slices to remove the
                                                                  Expand Differences
                              second 8 (Don't worry about actual and
   Pass
         <__ma...ject>
                    True
                                       expected values)
  You passed: 100.0% of the tests
```



```
Assign the number of elements in 1st to the variable num_1st.

Save & Run 6/9/2020, 2:48:14 PM - 2 of 2 Show in CodeLens

1 lst = ["hi", "goodbye", "python", "106", "506", 91, ['all', 'Paul', 'Jackie', "UMS] 2 num_1st = len(1st) 3 print(num_1st)

4
```

