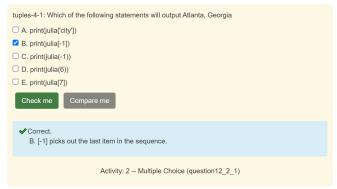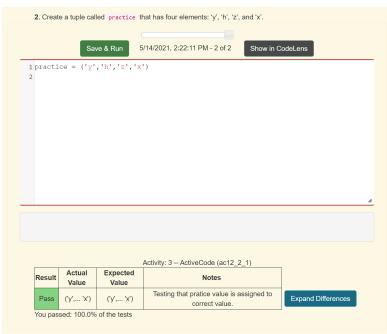# 13.2. Tuple Packing

Wherever python expects a single value, if multiple expressions are provided, separated by commas, they are automatically **packed** into a tuple. For example, we can omit the parentheses when assigning a tuple of values to a single variable.

Save & Run     Original - 1 of 1     Show in CodeLens

```
1 julia = ("Julia", "Roberts", 1967, "Duplicity", 2009, "Actress", "Atlanta, Georgia"
2 # or equivalently
3 julia = "Julia", "Roberts", 1967, "Duplicity", 2009, "Actress", "Atlanta, Georgia"
4 print(julia[4])
5
```

```
2009
```

Activity: 1 -- ActiveCode (ac13-1-1)

**Check your understanding**

tuples-4-1: Which of the following statements will output Atlanta, Georgia

- ☐ A. print(julia['city'])
- ☑ B. print(julia[-1])
- ☐ C. print(julia(-1))
- ☐ D. print(julia(6))
- ☐ E. print(julia[7])

Check me     Compare me

✔ Correct.
   B. [-1] picks out the last item in the sequence.

Activity: 2 -- Multiple Choice (question12_2_1)

**2.** Create a tuple called `practice` that has four elements: 'y', 'h', 'z', and 'x'.

Save & Run     5/14/2021, 2:22:11 PM - 2 of 2     Show in CodeLens

```
1 practice = ('y','h','z','x')
2
```

Activity: 3 -- ActiveCode (ac12_2_1)

| Result | Actual Value | Expected Value | Notes | |
|--------|--------------|----------------|-------|--|
| Pass | ('y',... 'x') | ('y',... 'x') | Testing that pratice value is assigned to correct value. | Expand Differences |

You passed: 100.0% of the tests

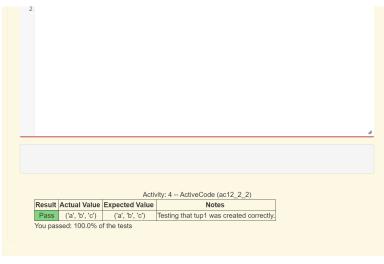**3.** Create a tuple named `tup1` that has three elements: 'a', 'b', and 'c'.

Save & Run     5/14/2021, 2:22:28 PM - 2 of 2     Show in CodeLens

```
1 tup1 = ('a','b','c')
```

Activity: 4 -- ActiveCode (ac12_2_2)

| Result | Actual Value | Expected Value | Notes |
|--------|--------------|----------------|-------|
| Pass | ('a', 'b', 'c') | ('a', 'b', 'c') | Testing that tup1 was created correctly. |

You passed: 100.0% of the tests

**4.** Provided is a list of tuples. Create another list called `t_check` that contains the third element of every tuple.

Save & Run    5/14/2021, 2:23:10 PM - 2 of 2    Show in CodeLens

```
1
2 lst_tups = [('Articuno', 'Moltres', 'Zaptos'), ('Beedrill', 'Metapod', 'Charizard',
3 t_check = []
4 for x in lst_tups:
5     t_check.append(x[2])
6 print (t_check)
7
```

['Zaptos', 'Charizard', 'Diglett', 'Tauros', 'Lanturn', 'Wailord']

Activity: 5 -- ActiveCode (ac12_2_3)

| Result | Actual Value | Expected Value | Notes | |
|--------|--------------|----------------|-------|---|
| Pass | ['Zap...ord'] | ['Zap...ord'] | Testing that pratice value is assigned to correct value. | Expand Differences |

You passed: 100.0% of the tests

**5.** Below, we have provided a list of tuples. Write a for loop that saves the second element of each tuple into a list called `seconds`.

Save & Run    5/14/2021, 2:23:33 PM - 2 of 2    Show in CodeLens

```
1
2 tups = [('a', 'b', 'c'), (8, 7, 6, 5), ('blue', 'green', 'yellow', 'orange', 'red')
3 seconds = []
4 for each in tups:
5     seconds.append(each[1])
6 print(seconds)
7
```

['b', 7, 'green', 9.99, 'chipmunk']

Activity: 6 -- ActiveCode (ac12_2_4)

| Result | Actual Value | Expected Value | Notes | |
|--------|--------------|----------------|-------|---|
| Pass | ['b',...unk'] | ['b',...unk'] | Testing that seconds was created correctly. | Expand Differences |

You passed: 100.0% of the tests

You have attempted 7 of 7 activities on this page

13.1. Introduction">

13.3. Tuple Assignment with Unpacking">

Introduction">

✔ Completed. Well Do...     13.3. Tuple Assignment with Unpacking">Next Section - 13.3. Tuple Assignment with Unpacking