Weekly challenge 4

1. Fill in the blank: In Python, indicate where a list starts and ends. 1/1 point
square brackets
O _{braces}
O _{quotation} marks
parentheses
Correct
2. A data professional is working with a list named cities that contains data on global cities What Python code can they use to add the string 'Tokyo' to the end of the list? 1/1 point
Cities.import('Tokyo')
cities.append('Tokyo')
Ocities.pop('Tokyo')
Ocities.insert('Tokyo')
\odot
Correct
3. In Python, which of the following characters can a data professional use to instantiate a tuple? 1/1 point
O< >
O _[]
$O_{\{ \}}$
()
\odot
Correct
4. Which of the following statements accurately describe Python dictionaries? Select all that
apply. 1/1 point
Dictionaries are ordered.
☑ Dictionaries are unordered.
Dictionaries are instantiated with quotation marks.
Dictionaries consist of collections of key-value pairs.
Correct

5. A data professional is working with a dictionary named employees that contains employee data for a healthcare company. What Python code can they use to retrieve only the dictionary's keys? 1/1 point
Oitems.employees()
O _{keys.employees()}
employees.keys()
O _{employees.items()}
\odot
Correct 6. A data professional is working with two Python sets. What function can they use to find the
elements present in one set, but not the other?1 / 1 point
<pre>difference()</pre>
Ointersection()
O _{union()}
<pre>symmetric_difference()</pre>
\odot
7. Where are modules accessed in Python? 1 / 1 point
Within a set
Within a global variable
Within a package or library
Within a dictionary
Correct
8. Which of the following statements accurately describe NumPy arrays? Select all that apply.
1/1 point
Arrays can be multidimensional.
\odot
Correct
Arrays are immutable.
Arrays contain elements of the same data type.
Correct
Arrays are mutable.
Correct

9. A data professional is working with a pandas dataframe named sales that contains sales
data for a retail website. They want to know the price of the most expensive item. What code can they use to calculate the maximum value of the Price column? 1/1 point
<pre>sales['Price'].max()</pre>
O _{sales.max()} .Price
Osales = 'Price'.max()
Osales.max().[Price]
Correct
10.In pandas, what is the difference between the iloc[] and loc[] methods?1/1 point
Oiloc[] selects dataframe rows and columns by name; loc[] selects dataframe rows and columns by index.
iloc[] selects dataframe rows and columns by index; loc[] selects dataframe rows
and columns by name.
Oiloc[] merges two dataframes horizontally; loc[] merges two dataframes vertically.
iloc[] merges two dataframes vertically; loc[] merges two dataframes horizontally.
Correct
11. A data professional wants to merge two pandas dataframes. They want to join the data so all of the keys from both dataframes get included in the merge. What technique can they use
to do so?1/1 point
O Right join
O _{Left join}
O _{Inner join}
Outer join
\odot
Correct