

Python Questions and Answers

Question 1

What will be the output of the following Python code?

```
a = [1, 2, 3, 4]
b = [sum(a[0:x+1]) for x in range(0, len(a))]
print(b)
```

Answer: [1, 3, 6, 10]

Question 2

This method removes and returns the last item in a list.

- list.last()
- list.removeLast()
- list.pop()
- list.popLast()

Answer: list.pop()

Question 3

This method sorts a list and returns a new list instead of modifying it in place.

- sortedBy()
- sorted()
- newSort()
- sort()

Answer: sorted()

Question 4

```
names = ['Tony', 'Bruce', 'Natasha', 'Steve']
print(names[3:])
```

- Steve
- Error - missing a value.
- Natasha, Steve
- Tony, Bruce, Natasha

Answer: ['Steve']

Question 5

The count method for a list returns the number of unique items in the list - it does not count duplicates.

- True
- False

Answer: False

Question 6

Which one of these best describes a list:

- An immutable container that contains a sequence of items ordered from right-to-left
- A mutable container that contains a sequence of items ordered from left-to-right
- An immutable container that contains items with no defined order
- A mutable container that contains items with no defined order

Answer: A mutable container that contains a sequence of items ordered from left-to-right

Question 7

`all(list)` - this method returns True if every element in list is True (!=0), or if the list is empty.

- True
- False

Answer: True

Question 8

What will be the output of the following Python code?

```
lst = [3, 4, 6, 1, 2]
lst[1:2] = [7, 8]
print(lst)
```

3, 7, 6, 1, 2

3, [7, 8 , 6, 1, 2]

- Syntax Error

3, 7, 8, 6, 1, 2

Answer: [3, 7, 8, 6, 1, 2]

Question 9

If I applied the title method to the string - 'This Is a Title', the resulting string returned would be

- This Is A Title
- THIS IS A TITLE
- this is a title
- This is a title

Answer: This Is A Title

Question 10

What will be the output of the following Python code?

```
numbers = [1, 2, 3, 4]
numbers.append([5, 6, 7, 8])
print(len(numbers))
```

- 5
- 6
- 7
- 8

Answer: 5