Week One Quiz

Quiz, 12 questions
11/12 points (91.66%)

Congratulations! You passed!
Next Item

Question 1
Incorrect
0 / 1 points

1. Question 1

Python is an example of an
Interpreted language
Declarative language

This should not be selected
This material was covered in the "Python Functions" lecture.
Operating system language
Data science language
Low level language

Question 2
Correct
1 / 1 points

2. Question 2

Data Science is a
Branch of statistics
Branch of computer science
Branch of artificial intelligence
Interdisciplinary, made up of all of the above

Correct
This material was covered in the "Data Science" lecture.

Question 3
Correct
1 / 1 points

3. Question 3

Data visualization is not a part of data science.
True

==False==

Correct

This material was covered in the "Data Science" lecture.

Question 4

Correct

1 / 1 points

4. Question 4

Which bracketing style does Python use for tuples?

{ }

==**( )**==

Correct

This material was covered in the "Python Types and Sequences" lecture.

[ ]

Question 5

Correct

1 / 1 points

5. Question 5

In Python, strings are considered Mutable, and can be changed.

==False==

Correct

This material was covered in the "Python More on Strings" lecture.

True

Question 6

Correct

1 / 1 points

6. Question 6

What is the result of the following code: ['a', 'b', 'c'] + [1, 2, 3]

==**['a', 'b', 'c', 1, 2, 3]**==

Correct

This material was covered in the "Python Types and Sequences" lecture.

TypeError: Cannot convert list(int) to list(str)

['a1', 'b2', 'c3']

[['a', 'b', 'c'], [1, 2, 3]]

Question 7

Correct

1 / 1 points

7. Question 7

String slicing is

A way to make string mutable in python

A way to reduce the size on disk of strings in python

==**A way to make a substring of a string in python**==

Correct

This material was covered in the "Python More on Strings" lecture.

Question 8

Correct

1 / 1 points

8. Question 8

When you create a lambda, what type is returned? E.g. type(lambda x: x+1) returns

<class 'function'>

Correct

This material was covered in the "Advanced Python Lambda and List Comprehensions" lecture.

<class 'type'>

<class 'int'>

<class 'lambda'>

Question 9

Correct

1 / 1 points

9. Question 9

The epoch refers to

January 1, year 0

January 1, year 1970

Correct

This material was covered in the "Python Dates and Times" lecture.

January 1, year 1980

January 1, year 2000

Question 10

Correct

1 / 1 points

10. Question 10

This code, [x2 for x in range(10)] , is an example of a**

List comprehension

Correct

This material was covered in the "Advanced Python Lambda and List Comprehensions" lecture.

Sequence comprehension

Tuple comprehension

List multiplication

Question 11

Correct

1 / 1 points

11. Question 11

Given a 6x6 NumPy array r, which of the following options would slice the shaded elements?

```
r[::7]
```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

```
r[:,::7]
```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

```
r[0:6,::-7]
```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

```
r.reshape(36)[::7]
```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Correct
You could also use np.diag(r). This material was covered in "Advanced Python Demonstration: The Numerical Python Library (NumPy)"
Question 12
Correct
1 / 1 points

12. Question 12
Given a 6x6 NumPy array r, which of the following options would slice the shaded elements?

1
2

```
r[2::2,2::2]
```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

1
2

```
r[2:4,2:4]
```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

Correct
This material was covered in "Advanced Python Demonstration: The Numerical
Python Library (NumPy)"

```
r[[2,3],[2,3]]
```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

```
r[::2,::2]
```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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