

## Week One Quiz

Quiz, 12 questions

12/12 points (100%)

✓ **Congratulations! You passed!**

Next Item



1 / 1  
points

1.

**Python is an example of an**



**Interpreted language**



**Correct**

This material was covered in the "Python Functions" lecture.



**Declarative language**



**Operating system language**



**Data science language**



**Low level language**



1 / 1  
points

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.

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1 / 1  
points

3.

**Data visualization is not a part of data science.**☐ True☒ False**Correct**

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

1 / 1  
points

4.

**Which bracketing style does Python use for tuples?**☐ { }☒ ( )**Correct**

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

☐ [ ]1 / 1  
points

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

## Week One Quiz <sup>1 / 1</sup> points

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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]]<sup>1 / 1</sup> points

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.

<sup>1 / 1</sup> points

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.



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- ☐ `<class 'type'>`
- ☐ `<class 'int'>`
- ☐ `<class 'object'>`
- 

1 / 1  
points

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
- 

1 / 1  
points

10.

**This code, `[x**2 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
- 

1 / 1  
points

# 11. Week One Quiz

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12/12 points (100%)

0	1	2	3	4	5
6	7	8	9	10	11
12	13	14	15	16	17
18	19	20	21	22	23
24	25	26	27	28	29
30	31	32	33	34	35



```
1 r[0:6, :-7]
2 |
```



```
1 r[:, ::7]
2 |
```



```
1 r.reshape(36)[::7]
2 |
```

**Correct**

You could also use `np.diag(r)`. This material was covered in "Advanced Python Demonstration: The Numerical Python Library (NumPy)"



```
1 r[:, :7]
2 |
```



1 / 1  
points

12.

## Week One Quiz

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

12/12 points (100%)

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0	1	2	3	4	5
6	7	8	9	10	11
12	13	14	15	16	17
18	19	20	21	22	23
24	25	26	27	28	29
30	31	32	33	34	35



```
1 r[:,2,::2]
2 |
```



```
1 r[[2,3],[2,3]]
2 |
```



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

**Correct**

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



```
1 r[2::2,2::2]
2 |
```

