

Feedback — Lecture 2 Quiz

[Help Center](#)

Thank you. Your submission for this quiz was received.

You submitted this quiz on **Tue 8 Sep 2015 10:15 PM PDT**. You got a score of **12.00** out of **12.00**.

Question 1

What is the result of the following operation in Python: $17/2$?

Your Answer	Score	Explanation
<input type="radio"/> 9.0		
<input type="radio"/> 8.0		
<input checked="" type="radio"/> 8 or 8.5, depending on the Python version	✓ 1.00	
<input type="radio"/> 8		
Total	1.00 / 1.00	

Question 2

Given the following code in Python:

```
>>> mydna = 'acgt'
>>> mydna = mydna + mydna
```

What will be the result of typing the following at the Python interpreter prompt:

```
>>> myDna
```

Your Answer	Score	Explanation
-------------	-------	-------------

☐ ''☐ 'ACGT'☒ an error message  1.00☐ 'acgt'

Total 1.00 / 1.00

Question 3

The following commands are entered at the prompt of Python interpreter.

```
>>> dna="atgctggggact"  
>>> dna[:3]  
>>> dna
```

What will be the output of the last command?

Your Answer	Score	Explanation
-------------	-------	-------------

<input checked="" type="radio"/> 'atgctggggact'	 1.00	
-------------------------------------------------	------------------------------------------------------------------------------------------	--

<input type="radio"/> 'atg'		
-----------------------------	--	--

<input type="radio"/> 'gctggggact'		
------------------------------------	--	--

<input type="radio"/> 'at'		
----------------------------	--	--

Total 1.00 / 1.00

Question 4

What is the output of 'dna'+1+2+3 ?

Your Answer	Score	Explanation
-------------	-------	-------------

☐ dna6☒ Error

1.00

☐ dna123☐ 'dna123'

Total

1.00 / 1.00

Question 5

Given a string variable called dna, for instance:

```
>>> dna='agcagttagcta'
```

What is a correct way to count the number of occurrences of 'ag' in dna:

Your Answer**Score****Explanation**☐ count(dna,'ag')+count(dna,'AG')☐ dna.count('a')+dna.count('A')+dna.count('g')+dna.count('G')☒ dna.count('ag')

1.00

☐ count(dna,'ag')

Total

1.00 / 1.00

Question 6

What is the value of the variable seqlen, after the following code is entered in Python:

```
>>> seqlen = '10bp'
>>> seqlen='2'+seqlen
>>> seqlen=seqlen*2
```

Your Answer**Score****Explanation**

<input type="radio"/> '10bp'		
<input type="radio"/> '1010bp'		
<input checked="" type="radio"/> '210bp210bp'	✓	1.00
<input type="radio"/> '12bp12bp'		
Total		1.00 / 1.00

Question 7

You wish to display the following text using the print function in Python:

```
>HSBGPG Human bone gla gene\transcript "BGP"
GGCAGATTCCCCCTAGA
```

Select the correct way to display this output in Python 3.xx:

Your Answer	Score	Explanation
<input checked="" type="radio"/> print('>HSBGPG Human bone gla gene\\transcript "BGP"\nGGCAGATTCCCCCTAGA')	✓ 1.00	
<input type="radio"/> print(">HSBGPG Human bone gla gene\transcript "BGP"\nGGCAGATTCCCCCTAGA")		
<input type="radio"/> print('>HSBGPG Human bone gla gene\transcript "BGP" GGCAGATTCCCCCTAGA')		
<input type="radio"/> print(">HSBGPG Human bone gla gene\\transcript "BGP"\nGGCAGATTCCCCCTAGA")		
Total	1.00 / 1.00	

Question 8

A student is writing Python 3.xx code to read in a dna sequence using the following command:

```
>>> dna=input("Enter a DNA sequence, please:")
```

The student tries three different ways to compute the index of the second occurrence of the string 'atg' in the dna sequence:

A.

```
>>> o1 = dna.find('atg')
>>> dna.find('atg', o1+1)
```

B.

```
>>> dna.rfind('atg')
```

C.

```
>>> dna.find('atg', dna.find('atg')+1)
```

Which of these ways is correct:

Your Answer	Score	Explanation
<input type="radio"/> B		
<input type="radio"/> A		
<input type="radio"/> C		
<input checked="" type="radio"/> A or C	✓ 1.00	
Total	1.00 / 1.00	

Question 9

What are the types of the following literals, in order?

1, 1., 1.0, 1e10, 0x12, "1", "1.0", 10000000000000000000, 10000000000000000000.0

Your Answer	Score	Explanation
<input type="radio"/> int, no type (error), float, float, hex, string, string, int, float		
<input checked="" type="radio"/> int, float, float, float,int,str,str,int,float	✓ 1.00	
<input type="radio"/> int, float, float, double, hex, str, str, long, double		
<input type="radio"/> int, float, float, float, hex, int, float, int, float		
Total	1.00 / 1.00	

Question 10

What is the result of `int(4+6/2+2*2)`?

Your Answer	Score	Explanation
<input type="radio"/> 9.0		
<input type="radio"/> 14.0		
<input type="radio"/> 11.0		
<input checked="" type="radio"/> 11	✓ 1.00	
Total	1.00 / 1.00	

Question 11

What is the difference between the expressions `val = 1234567` and `val = 1.234567 * 10 ** 6`?

Your Answer	Score	Explanation
<input checked="" type="radio"/> In the first expression val is of type int, in the second val is of type float. Numerical value is the same.	✓ 1.00	
<input type="radio"/> No difference.		
<input type="radio"/> In the first expression val is of type int, in the second val is of		

type float. Numerical values are different.

- ☐ The value of the variable val in the first expression is different from the value of the variable val in the second expression.
- ☐ The two values are not equal.

Total	1.00 / 1.00
-------	-------------

Question 12

What are the values of the variables a, b, c and d after the following statements have been executed?

a=1

b=2

c=a+b

a = b

a = c

d=a+c

Your Answer	Score	Explanation
-------------	-------	-------------

☐ a will be 1, b will be 2, c 3 and d 4.

☒ a will be 3, b will be 2, c 3 and d 6.  1.00

☐ a will be 3, b will be 2, c 3 and d 4.

☐ a will be 1, b will be 2, c 3 and d 6.

Total	1.00 / 1.00
-------	-------------