

This is line 1

This is line 2

This is line 3

## Congratulations! You passed!

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1.	What is the result of the following lines of code?	1/1 point
	<pre>1    a=np.array([-1,1]) 2    b=np.array([1,1]) 3    np.dot(a,b)</pre>	
	<pre>O array([0,2]) O 1</pre>	
	<ul><li>● 0</li><li>✓ Correct correct</li></ul>	
2.	How do you perform matrix multiplication on the numpy arrays <b>A</b> and <b>B</b> ?	1 / 1 point
	<ul><li>○ A+B</li><li>● np.dot(A,B)</li><li>○ A*B</li></ul>	
3.	What values does the variable <b>out</b> take if the following lines of code are run?	1 / 1 point
	<pre>2 X=np.array([[1,0,1],[2,2,2]]) 3 out=X[0:2,2] 4 out 5</pre>	
	O array([1,0])	
	<ul><li>array([1,2])</li><li>array([1,1])</li></ul>	
	○ Correct     correct, the first index corresponds to the rows the second index corresponds to the columns	
4.	What is the value of <b>Z</b> after the following code is run?	1 / 1 point
	1 2  X=np.array([[1,0],[0,1]]) 3  Y=np.array([[2,2],[2,2]]) 4  Z=np.dot(X,Y) 5	
	<pre>array([[2,2],[2,2]])</pre>	
	<pre> array([[2,0],[0,2]])       array([[3,2],[2,3]])</pre>	
5.	Consider the following text file: Example1.txt:	1/1 point

What is the output of the following lines of code?

```
with open("Exampl1.txt","r") as File1:
                  file_stuff=File1.readline ()
        4
                  print(file_stuff)
   This is line 1
   O This is line 1
        This is line 2
        This is line 3
   O This is line 1
        This is line 2
      ⊘ Correct
         Correct
\textbf{6.} \quad \text{Consider the following line of code:} \\
                                                                                                                                                                                           1/1 point
            with open(example1,"r") as file1:
    What mode is the file object in?
   read
   O write
   \bigcirc \ \ \mathsf{append}
     ⊘ Correct
         Correct, the mode is set to r for read.
7. What do the following lines of code do?
                                                                                                                                                                                           1 / 1 point
             with open("Example.txt","w") as writefile:
               writefile.write("This is line A\n")
writefile.write("This is line B\n")
   Read the file "Example.txt"
   Write to the file "Example.txt"
   O Append the file "Example.txt"
     ⊘ Correct
         Correct.
8. What do the following lines of code do?
                                                                                                                                                                                           1/1 point
             with open("Example3.txt","w") as file1:
             file1.write("This is line C\n")
   Read the file "Example3.txt".
   O Append the file "Example3.txt".
   error
     ⊘ Correct
```

Correct. There is no indent.

<ul> <li>df.iloc[2,0]</li> <li>df.iloc[1,3]</li> <li>df.iloc[0,2]</li> </ul>	
<ul><li>10. What method gets the unique elements of the following: df['Length']?</li><li>unique</li></ul>	1/1 point
○ head	