## Congratulations! You passed!

Grade received 90% Latest Submission Grade 90% **To pass** 70% or higher

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

```
5. Consider the following text file: Example1.txt:
                                                                                                                        1/1 point
   This is line 1
   This is line 2
   This is line 3
   What is the output of the following lines of code?
             with open("Example1.txt","r") as file1:
                 FileContent=file1.read()
                 print(FileContent)
   This is line 1
        This is line 2
        This is line 3
   O This is line 1
   O This
     ⊘ Correct
          Correct.
6. 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
   O 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?
                                                                                                                        0 / 1 point
            with open("Example3.txt","w") as file1:
             file1.write("This is line C\n")
   Read the file "Example3.txt".
```

Append the file "Example3.txt".

	O error	
	⊗ Incorrect Incorrect.	
9.	Consider the dataframe <b>df</b> . How would you access the element in the 2nd row and 1st column?	1/1 point
	(a) df.iloc[1,0]	
	O df.iloc[2,1]	
	O df.iloc[0,1]	
	○ Correct correct	
10.	What method gets the unique elements of the following: df['Length']?	1/1 point
	unique	
	O head	
	⊙ Correct correct	