✓ **Congratulations! You passed!**

Grade received 80% **To pass** 70% or higher

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Module 4 Graded Quiz

Latest Submission Grade 80%

1. What is the result of the following lines of code?

1 / 1 point

```
1   a=np.array([0,1])
2   b=np.array([1,0])
3   np.dot(a,b)
```

◉ 0

○ 1

○ array([1,1])

✓ **Correct**
correct

2. How do you perform matrix multiplication on the numpy arrays **A** and **B** ? 1/1 point

○ A*B

○ A+B

◉ np.dot(A,B)

⊘ **Correct**
correct

3. What values does the variable **out** take if the following lines of code are run? 1/1 point

```
1
2    X=np.array([[1,0,1],[2,2,2]])
3    out=X[0:2,2]
4    out
5
```

○ array([1,0])

◉ array([1,2])

○ array([1,1])

⊘ **Correct**
correct, the first index corresponds to the rows the second index corresponds to the columns

4. What is the value of **Z** after the following code is run?

1 / 1 point

```
1
2   X=np.array([[1,0],[0,1]])
3   Y=np.array([[2,1],[1,2]])
4   Z=np.dot(X,Y)
5
```

◉ array([[2,1],[1,2]])

◯ array([[2,0],[1,0]])

◯ array([[3,1],[1,3]])

⊘ **Correct**
correct, the dot function corresponds to matrix multiplication

5. Consider the following text file: **Example1.txt**:

This is line 1

This is line 2

This is line 3

What is the output of the following lines of code?

```
1
2   with open("Exampl1.txt","r") as File1:
3
4       file_stuff=File1.readline ()
5
6       print(file_stuff)
```

◉ This is line 1

◯ This is line 1
   This is line 2
   This is line 3

◯ This is line 1
   This is line 2

⊘ **Correct**
Correct

6. What do the following lines of code do?   1 / 1 point

```
1
2   with open("Example1.txt","r") as file1:
3
4     FileContent=file1.readlines()
5
6     print(FileContent)
7
```

◉ Read the file "Example1.txt"

○ Write to the file "Example1.txt"

○ Append the file "Example1.txt"

⊘ **Correct**
Correct, the mode is set to r for read.

7. What do the following lines of code do?   1 / 1 point

```
1
2   with open("Example.txt","w") as writefile:
3
4     writefile.write("This is line A\n")
5     writefile.write("This is line B\n")
6
```

○ Read the file "Example.txt"

◉ Write to the file "Example.txt"

○ Append the file "Example.txt"

⊘ **Correct**
Correct.

8. What task do the following lines of code perform?

0 / 1 point

```
1
2    with open('Example2.txt','r') as readfile:
3        with open('Example3.txt','w') as writefile:
4            for line in readfile:
5                writefile.write(line)
6
```

⦿ Print out the content of Example2.txt.

○ Check the mode of the open function for each file object.

○ Copy the text from Example2.txt to Example3.txt.

ⓧ **Incorrect**
Incorrect.

9. Consider the dataframe **df**. How would you access the element in the 1st row 3rd column

0 / 1 point

○ df.iloc[2,0]

⦿ df.iloc[1,3]

○ df.iloc[0,2]

ⓧ **Incorrect**
incorrect, remember Pandas is zero based

10. What function would you use to load a csv file in Pandas?

1 / 1 point

⦿ pd.read_csv

○ pd.read_excel

✓ **Correct**
correct