Module 4 Graded Quiz

Latest Submission Grade 70%

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**

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

1 / 1 point

⦿ np.dot(A,B)

◯ A+B

◯ 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
```

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

```
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**:

0 / 1 point

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("Example1.txt","r") as file1:
3
4       FileContent=file1.read()
5
6       print(FileContent)
```

○ This is line 1

   This is line 2

```
5
6        print(FileContent)
```

○ This is line 1

   This is line 2

   This is line 3

● This is line 1

○ This

⊗ **Incorrect**
   Incorrect. This would be the result if you used the method **readline** to read one line of text.

6. Consider the following line of code:

0 / 1 point

6. Consider the following line of code:

0 / 1 point

```
1
2    with open(example1,"r") as file1:
3
```

What mode is the file object in?

○ read

⦿ write

○ append

⊗ **Incorrect**
    Incorrect, the mode is set to 'r'.

7. What do the following lines of code do?

1 / 1 point

```
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 do the following lines of code do?

1 / 1 point

```
1
2    with open("Example3.txt","w") as file1:
3
4    file1.write("This is line C\n")
5
```

○ Read the file "Example3.txt".

○ Append the file "Example3.txt".

◉ error

✓ **Correct**
  Correct. There is no indent.

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

○ 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