

Module 4 Graded Quiz

Latest Submission Grade 100%

1.

Question 1

What is the result of the following lines of code?

```
a=np.array([-1,1])
```

```
b=np.array([1,1])
```

```
np.dot(a,b)
```

1 / 1 point

☐

array([0,2])

☐

1

☒

0

Correct

correct

2.

Question 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.

Question 3

What values does the variable **out** take if the following lines of code are run?

```
X=np.array([[1,0,1],[2,2,2]])
```

```
out=X[0,1:3]
```

out

1 / 1 point

☒

array([0,1])

☐

array([1,0,1])

☐

array([2,2])

Correct

correct, the first index corresponds to the rows the second index corresponds to the columns

4.

Question 4

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

```
X=np.array([[1,0],[0,1]])
```

```
Y=np.array([[2,1],[1,2]])
```

```
Z=np.dot(X,Y)
```

1 / 1 point

☒

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.

Question 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?

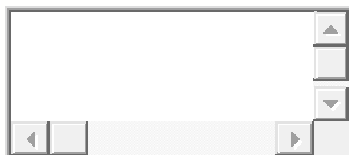
```
with open("Examp11.txt","r") as File1:
```



```
        file_stuff=File1.readline ()
```



```
        print(file_stuff)
```



1 / 1 point



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

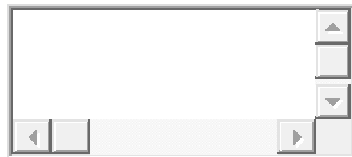
Correct

6.

Question 6

Consider the following line of code:

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



What mode is the file object in?

1 / 1 point

☒

read

☐

write

☐

append

Correct

Correct, the mode is set to r for read.

7.

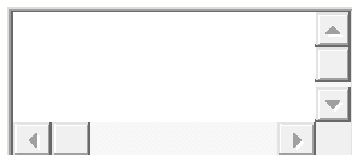
Question 7

What do the following lines of code do?

```
with open("Example.txt","a") as writefile:
```

```
writefile.write("This is line A\n")
```

```
writefile.write("This is line B\n")
```



1 / 1 point

☐

Read the file "Example.txt"

☒

Append the file "Example.txt"

☐

Write to the file "Example.txt"

Correct

Correct.

8.

Question 8

What task do the following lines of code perform?

```
with open('Example2.txt','r') as readfile:
```

```
    with open('Example3.txt','w') as writefile:
```

```
        for line in readfile:
```

```
            writefile.write(line)
```

1 / 1 point

☒

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

☐

Print out the content of Example2.txt.

☐

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

Correct

Correct.

9.

Question 9

Consider the dataframe **df**. How would you access the element in the 2nd row and 1st column?

1 / 1 point



`df.iloc[1,0]`



`df.iloc[2,1]`



`df.iloc[0,1]`

Correct

correct

10.

Question 10

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

1 / 1 point



`pd.read_csv`



`pd.read_excel`

Correct

correct