



✓ **Congratulations! You passed!**
TO PASS 70% or higher

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Module 4 Graded Quiz

LATEST SUBMISSION GRADE

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

1 / 1 point

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

- ☐ array([0,2])
- ☐ 1
- ☒ 0

✓ **Correct**
correct

2. 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([[0,1],[1,0]])
4 Z=X+Y
5
```

- ☒ array([[1,1],[1,1]])
- ☐ array([[1,0],[0,1]])
- ☐ array([[0,1],[1,1]])

✓ **Correct**
correct, the '+' corresponds to matrix addition

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

- ☒ array([[2,2],[2,2]])
- ☐ array([[2,0],[0,2]])
- ☐ array([[3,2],[2,3]])

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

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?

```
1
2 with open("Examp1l.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", "a") as writefile:
3
4     writefile.write("This is line A\n")
5     writefile.write("This is line B\n")
```

☐ Write to the file "Example.txt"

☐ Read the file "Example.txt"

☒ Append the file "Example.txt"

✓ **Correct**
Correct.

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

1 / 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
```

- ☐ Check the mode of the open function for each file object.
- ☒ Copy the text from Example2.txt to Example3.txt.
- ☐ Print out the content of Example2.txt.

✓ **Correct**
Correct.

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

1 / 1 point

- ☐ df.iloc[2,0]
- ☐ df.iloc[1,3]
- ☒ df.iloc[0,2]

✓ **Correct**
correct

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

1 / 1 point

- ☒ pd.read_csv
- ☐ pd.read_excel

✓ **Correct**
correct