

Your grade: 70%

Your latest: **70%** • Your highest: **70%** • To pass you need at least 70%. We keep your highest score.

Next item →

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. 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[0,1:3]
4 out
5
```

- ☐ array([1,0,1])
- ☒ array([0,1])
- ☐ array([2,2])

✓ **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?

0 / 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)
```

```
4 L=zip(*zip(A,T))
5
```

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

✗ **Incorrect**
incorrect, the first index corresponds to the rows the second index corresponds to the columns

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     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

✗ **Incorrect**
Incorrect. This would be the output of the method read.

6. Consider the following line of code:

1 / 1 point

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

What mode is the file object in?

- ☒ read
- ☐ write
- ☐ append

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

7. What do the following lines of code do?

0 / 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")
```

- ☒ Read the file "Example.txt"
- ☐ Write to the file "Example.txt"
- ☐ Append the file "Example.txt"

✗ **Incorrect**

Incorrect. Check the mode of the function open.

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 2nd row and 1st column?

1 / 1 point

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

✓ **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