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

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GRADE
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# Module 4 Graded Quiz

**LATEST SUBMISSION GRADE**

100%

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])

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

**1 / 1 point**

○ A*B

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

○ array([1,0])

◉ array([1,2])

○ array([1,1])

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

1 / 1 point

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

⦿ 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**:

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?

This is line 3

What is the output of the following lines of code?

```
1  with open("Exampl1.txt","r") as File1:
2
3      file_stuff=File1.readline ()
4
5      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    with open("Example1.txt","r") as file1:
2
3       FileContent=file1.readlines()
4
5       print(FileContent)
6
```

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

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

○ Read the file "Example3.txt".

○ Append the file "Example3.txt".

◉ error

✓ **Correct**

✓ **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 method gets the unique elements of the following: **df['Length']** ?    **1 / 1 point**

   ⦿ unique

   ◯ head

   ✓ **Correct**

   correct