

✔ Congratulations! You passed!

Grade received **88.88%** To pass 66% or higher

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Module 1 Graded Quiz

Latest Submission Grade **88.88%**

1. What is the value of x after the following lines of code?

1 / 1 point

```
x=2
```

```
x=x+2
```

☒ 4

☐ 2

✔ **Correct**

Correct: the value `x=x+2` changes the value of `x`, if `x` is assigned to its self. It's helpful to replace the value of `x` with its current value in this case 2 or `x=2+2`.

2. What is the result of the following operation `1+3*2` ?

1 / 1 point

☒ 7

☐ 12

☐ 8

✔ **Correct**

Correct, Python follows the standard mathematical conventions

3. What is the type of the following `"7.1"`

0 / 1 point

☐ What is the type of the following `"7.1"`

☒ float

☐ string

✘ **Incorrect**

incorrect, there are quotation marks

4. What is the result of the following code segment: `int(False)`

1 / 1 point

- ☐ 1
- ☒ 0
- ☐ error



Correct

correct, when you cast a boolean **False** to an integer you get a 0

5. In Python, what is the result of the following operation: `'1'+'2'` ?

1 / 1 point

- ☐ 3
- ☐ '3'
- ☒ '12'



Correct

correct, the '+' applied to strings does not add strings but concatenates them

6. What is the result of the following: `'hello'.upper()` ?

1 / 1 point

- ☒ 'HELLO'
- ☐ 'Hello'
- ☐ 'hello'



Correct

correct, upper returns a copy of the string in which all case-based characters have been converted to uppercase.

7. What is the result of the following : `str(1)+str(1)` ?

1 / 1 point

- ☒ '11'
- ☐ 2



Correct

6. What is the result of the following: `'hello'.upper()` ?

1 / 1 point

- ☒ 'HELLO'
- ☐ 'Hello'
- ☐ 'hello'

✓ **Correct**

correct, upper returns a copy of the string in which all case-based characters have been converted to uppercase.

7. What is the result of the following : `str(1)+str(1)` ?

1 / 1 point

- ☒ '11'
- ☐ 2

✓ **Correct**

correct, the integers are cast to a string, and the strings are concatenated

8. What is the result of the following: `"ABC".replace("AB", "ab")` ?

1 / 1 point

- ☒ 'abC'
- ☐ 'ABc'

✓ **Correct**

correct, the method **replace** returns a copy of the string with all occurrences of the old substring

9. In Python 3, what is the type of the variable x after the following: `x=2/2` ?

1 / 1 point

- ☒ float
- ☐ int

✓ **Correct**

correct, in Python 3, regular division always results in a float

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Module 2 Graded Quiz

Latest Submission Grade 80%

1. Consider the tuple $A=((11,12),[21,22])$, that contains a tuple and list. What is the result of the following operation $A[1]$?

1 / 1 point

☐ $((11,12),[21,22])$

☒ $[21,22]$

☐ $(11,12)$



Correct

correct, the index 1 corresponds to the second element in the tuple, which contains another list.

2. Consider the tuple $A=((1),[2,3],[4])$, that contains a tuple and list. What is the result of the following operation $A[2][0]$?

1 / 1 point

☒ 4

☐ $[4]$

☐ 1



Correct

correct, $A[2]$ corresponds to the third nested list; we then access the only element of the list using the index 0 i.e. $A[2][0]$.

3. The method `append` does the following:

1 / 1 point

☒ adds one element to a list

☐ merges two lists or insert multiple elements to a list



Correct

correct, `append`-only adds one element.

4. Consider the following list : $A=["hard\ rock",10,1.2]$

1 / 1 point



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4. Consider the following list : `A=["hard rock",10,1.2]`

1 / 1 point

What will list **A** contain after the following command is run: `del(A[1])` ?

- ☐ [10,1.2]
- ☒ ["hard rock",1.2]
- ☐ ["hard rock",10]



Correct

correct , we will delete element 1

5. What is the syntax to clone the list **A** and assign the result to list **B** ?

1 / 1 point

- ☐ `B=A`
- ☒ `B=A[:]`



Correct

correct

6. What is the result of the following: `len(("disco",10,1.2, "hard rock",10))` ?

1 / 1 point

- ☒ 5
- ☐ 6
- ☐ 0



Correct

correct, there are 5 elements in the tuple so the function len returns 5

7. Consider the following dictionary:

0 / 1 point

```
{ "The Bodyguard":"1992", "Saturday Night Fever":"1977" }
```

select the keys

☒ "1992"



This should not be selected

incorrect this is a value



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7. Consider the following dictionary:

0 / 1 point

```
{ "The Bodyguard": "1992", "Saturday Night Fever": "1977" }
```

select the keys

☒ "1992"

This should not be selected
incorrect this is a value

☒ "1977"

This should not be selected
incorrect this is a value

☐ "Saturday Night Fever"

☐ "The Bodyguard"

8. The variable `release_year_dict` is a Python Dictionary, what is the result of applying the following method: `release_year_dict.values()` ?

0 / 1 point

☒ retrieve the keys of the dictionary

☐ retrieves, the values of the dictionary

Incorrect
incorrect, this method returns the values

9. Consider the Set: `V={'1','2'}`, what is the result of `V.add('3')`?

1 / 1 point

☐ {1,2,3}

☒ {'1','2','3'}

☐ {'1','2'}

Correct
correct

10. What is the result of the following: `'A' in {'A','B'}` ?

1 / 1 point



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incorrect this is a value

☒ "1977"

☒ **This should not be selected**
incorrect this is a value

☐ "Saturday Night Fever"

☐ "The Bodyguard"

8. The variable `release_year_dict` is a Python Dictionary, what is the result of applying the following method: `release_year_dict.values()`?

0 / 1 point

- ☒ retrieve the keys of the dictionary
- ☐ retrieves, the values of the dictionary

☒ **Incorrect**
incorrect, this method returns the values

9. Consider the Set: `V={'1','2'}`, what is the result of `V.add('3')`?

1 / 1 point

- ☐ {1,2,3}
- ☒ {'1','2','3'}
- ☐ {'1','2'}


☒ **Correct**
correct

10. What is the result of the following: `'A' in {'A','B'}`?

1 / 1 point

- ☐ False
- ☒ True

☒ **Correct**
correct

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Module 3 Graded Quiz

Latest Submission Grade 80%

1. What is the output of the following code?

1 / 1 point

```
1 x="Go"
2
3 if(x=="Go"):
4     print('Go ')
5
6
7 else:
8     print('Stop')
9
10
11 print('Mike')
```

- ☒ Go Mike
- ☐ Mike
- ☐ Stop Mike


 Correct

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

0 / 1 point

```
1 x=1
2 x>5
```

- ☒ True
- ☐ False

 Incorrect

incorrect, 1 is not larger than 5

3. What is the output of the following few lines of code?

1 / 1 point

```
1 x=0
2 while(x<2):
```



```
1 x=0
2 while(x<2):
3     print(x)
4     x=x+1
```

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☒ 0

1

☐ 0

1

2

☐ 0

1

3

4

✓ Correct
Correct

4. What is the result of running the following lines of code ?

1/1 point

```
1 class Points(object):
2     def __init__(self,x,y):
3
4         self.x=x
5         self.y=y
6
7     def print_point(self):
8
9         print('x=',self.x,' y=',self.y)
10
11 p1=Points("A","B")
12 p1.print_point()
```

☐ x= A☐ y= B☒ x= A y= B

✓ Correct
correct



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5. What is the output of the following few lines of code?

1 / 1 point

```
1 for i,x in enumerate(['A','B','C']):
2     print(i+1,x)
```

- ☒ 1 A
2 B
3 C
- ☐ 0 A
1 B
2 C
- ☐ 0 AA
1 BB
2 CC



Correct
Correct

6. What is the result of running the following lines of code ?

1 / 1 point

```
1 class Points(object):
2
3     def __init__(self,x,y):
4
5         self.x=x
6         self.y=y
7
8     def print_point(self):
9
10        print('x=',self.x,' y=',self.y)
11
12 p2=Points(1,2)
13
14 p2.x='A'
15
16 p2.print_point()
```

- ☐ x= 1 y=2
- ☒ x= A y=2

```

10 | | print(x=,self.x, y=,self.y)
11 |
12 | p2=Points(1,2)
13 |
14 | p2.x='A'
15 |
16 | p2.print_point()

```



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- ☐ x=1 y=2
- ☒ x= A y=2
- ☐ x=A, y=B

✓ **Correct**
correct

7. Consider the function step, when will the function return a value of 1?

1/1 point

```

1 | def step(x):
2 |     if x>0:
3 |         y=1
4 |     else:
5 |         y=0
6 |     return y

```

- ☒ if x is larger than 0
- ☐ if x is equal to or less than zero
- ☐ if x is less than zero

✓ **Correct**
correct, the value of y is 1 only if x is larger than 0


8. What is the output of the following lines of code?

1/1 point

```

1 | a=1
2 |
3 | def do(x):
4 |     a=100
5 |     return(x+a)
6 |
7 | print(do(1))
8 |

```

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Module 4 Graded Quiz

Latest Submission Grade **80%**

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**
correct2. 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**
correct3. 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
```



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



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

- ☒ This is line 1
- ☐ This is line 2
- ☐ This is line 3



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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","w") as writefile:
3
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?

0 / 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".

Correct.

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8. What do the following lines of code do?

0 / 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

✗ **Incorrect**
Incorrect.

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. In the lab, you learned you can also obtain a series from a dataframe **df**, select the correct way to assign the column with the header **Length** to a pandas series to the variable **x**.

0 / 1 point

- ☐ x=df['Length']
- ☐ x=df[['Length']]
- ☒ x=df.['Length']

✗ **Incorrect**
incorrect, this is not proper syntax

✔ **Congratulations! You passed!**
Grade received **100%** To pass 70% or higher

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Module 5 Graded Quiz

Latest Submission Grade 100%

1. What are the 3 parts to a response message?

1 / 1 point

- ☐ Bookmarks, history, and security
- ☒ Start or status line, header, and body
- ☐ Encoding, body, and cache
- ☐ HTTP headers, blank line, and body

✔ **Correct**

2. What is the purpose of this line of code "`table_row=table.find_all(name='tr')`" used in webscraping?

1 / 1 point

- ☐ It will find all of the data within the table marked with a tag "`p`"
- ☒ It will find all of the data within the table marked with a tag "`tr`"
- ☐ It will find all of the data within the table marked with a tag "`a`"
- ☐ It will find all of the data within the table marked with a tag "`h1`"

✔ **Correct**

3. In what data structure do HTTP responses generally return?

1 / 1 point

- ☐ JSON
- ☐ Nested Lists
- ☒ Lists
- ☐ Tuples

✔ **Correct**

- ☒ Start or status line, header, and body
- ☐ Encoding, body, and cache
- ☐ HTTP headers, blank line, and body

✓ Correct

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2. What is the purpose of this line of code "`table_row=table.find_all(name='tr')`" used in webscraping?

1 / 1 point

- ☐ It will find all of the data within the table marked with a tag "p"
- ☒ It will find all of the data within the table marked with a tag "tr"
- ☐ It will find all of the data within the table marked with a tag "a"
- ☐ It will find all of the data within the table marked with a tag "h1"

✓ Correct

3. In what data structure do HTTP responses generally return?

1 / 1 point

- ☐ JSON
- ☐ Nested Lists
- ☒ Lists
- ☐ Tuples

✓ Correct

4. The Python library we used to plot the chart in the lab is

1 / 1 point

- ☐ Plotly
- ☐ Pandas
- ☒ Matplotlib
- ☐ PyCoinGecko

✓ Correct

✔ Congratulations! You passed!

Grade received **84%** To pass 75% or higher

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Final Exam

Latest Submission Grade **84%**

1. When slicing in Python what does the "0" in this statement [0:2] specify?

0 / 1 point

- ☐ It specifies the position to start the slice
- ☒ It specifies the step of the slicing
- ☐ It specifies the position to end the slice

✘ Incorrect

2. If `var = "01234567"` what Python statement would print out only the odd elements?

1 / 1 point

- ☐ `print(var[2::2])`
- ☒ `print(var[1::2])`
- ☐ `print(var[3::1])`

✔ Correct

3. Consider the string `Name="EMILY"`, what statement would return the index of 3?

1 / 1 point

- ☐ `Name.find("Y")`
- ☐ `Name.find("M")`
- ☒ `Name.find("L")`

✔ Correct

4. What is the type of the following: `1.0`

1 / 1 point

- ☐ `str`
- ☒ `float`



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4. What is the type of the following: 1.0

1 / 1 point

- ☐ str
- ☒ float
- ☐ int

✓ Correct

5. What is the result of the following code segment: float(3)?

1 / 1 point

- ☐ 3
- ☒ 3.0
- ☐ 3.5

✓ Correct

6. What following code segment would produce an output of "0.5"?

1 / 1 point

- ☐ 1//2
- ☒ 1/2

✓ Correct

7. In Python 3, what is the type of the variable x after the following: x=2/2 ?

1 / 1 point

- ☒ float
- ☐ int

✓ Correct

8. How many identical keys can a dictionary have ?

1 / 1 point

- ☐ 3
- ☐ 100000000



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8. How many identical keys can a dictionary have?

1/1 point

- ☐ 3
- ☐ 100000000
- ☒ 0

✓ Correct

9. What is the syntax to obtain the first element of the tuple?

1/1 point

`A=('a','b','c')`

- ☒ `A[0]`
- ☐ `A[1]`
- ☐ `A[:]`

✓ Correct

10. What line of code would produce this output: `['1','2','3','4']`?

0/1 point

- ☒ `'1,2,3,4'.split(',')`
- ☐ `'1,2,3,4'.join(',')`
- ☐ `'1,2,3,4'.reverse(',')`
- ☐ `'1,2,3,4'.split(',')`

✗ Incorrect

11. What is an important difference between lists and tuples?

1/1 point


- ☐ Lists and tuples are the same
- ☐ Lists can't contain a string
- ☐ Tuples can only have integers
- ☒ Lists are mutable tuples are not

12. What is a collection that is unordered, unindexed and does not allow duplicate members?

1 / 1 point

- ☐ Tuple
- ☐ List
- ☒ Set

 Correct

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13. What value of x will produce the following output?

1 / 1 point

How are you?

```
1 x=
2 if(x!=1):
3     print('How are you?')
4 else:
5     print('Hi')
```

- ☒ x=6
- ☐ x="7"
- ☐ x=1

 Correct

14. What is an error that occurs during the execution of code?

1 / 1 point

- ☐ Exception handling
- ☐ Finally
- ☒ Exception
- ☐ Error messages

 Correct

15. What add function would return '4'?

1 / 1 point

- ☒ def add(x): return(x+x) add(2)
- ☐ def add(x): return(x+x) add('4')



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16. What function returns a sorted list?

1 / 1 point

- ☒ sorted()
- ☐ lower()
- ☐ find()
- ☐ sort()

✓ Correct

17. What segment of code would output the following?

1 / 1 point

- 3
6
9
- ☐ A=['1','2','3'] for a in A: print(2*a)
 - ☒ A=[1,2,3] for a in A: print(3*a)
 - ☐ A=[1,2,3] for a in A: print(2*a)

✓ Correct

18. What code segment would output the following?

1 / 1 point

- 2
- ☐ for i in range(1,5): if (i!=1): print(i)
 - ☐ for i in range(1,5): if (i!=2): print(i)
 - ☒ for i in range(1,5): if (i==2): print(i)

✓ Correct

19. What is the method defined in the class Rectangle used to draw the rectangle?

0 / 1 point

class Rectangle(object): def __init__(self,width=2,height =3,color='r'): self.height=height self.width=width

✓ Correct

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19. What is the method defined in the class Rectangle used to draw the rectangle?

0 / 1 point

```
class Rectangle(object):
    def __init__(self, width=2, height=3, color='r'):
        self.height=height
        self.width=width
        self.color=color
    def drawRectangle(self):
        import matplotlib.pyplot as plt
        plt.gca().add_patch(plt.Rectangle((0, 0), self.width, self.height, fc=self.color))
        plt.axis('scaled')
        plt.show()
```

- ☐ drawRectangle
- ☐ import matplotlib
- ☒ class Rectangle

✗ Incorrect

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

1 / 1 point

```
a=np.array([0,1,0,1,0])
b=np.array([1,0,1,0,1])
a/b
```

- ☒ Division by zero error
- ☐ array([0.1, 1.0, 0.1, 1.0, 0.1])
- ☐ array([1, 1, 1, 1, 1])

✓ Correct

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

1 / 1 point

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

- ☐ array([11, 11, 11, 11, 11])
- ☐ array([1, 1, 1, 1, 1])
- ☒ array([2, 2, 2, 2, 2])

✓ Correct

22. How would you select the columns with the headers: Artist, Length and Genre from the dataframe **df** and assign them to the variable **y**?

1 / 1 point

- ☐ y=df['Artist','Length','Genre']



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22. How would you select the columns with the headers: Artist, Length and Genre from the dataframe **df** and assign them to the variable **y**?

1 / 1 point

- ☐ `y=df['Artist','Length','Genre']`
- ☒ `y=df[['Artist','Length','Genre']]`
- ☐ `y=df[['Artist'],['Length'],['Genre']]`

✓ Correct

23. Consider the file object: **File1**. How would you print the first two lines of text?

1 / 1 point

- ☒ `for n in range(0,2): print(file1.readline())`
- ☐ `file1.readline(4)`

✓ Correct

24. Which line of code is in the mode of append?

1 / 1 point

- ☐ `with open("Example.txt","w") as file1:`
- ☒ `with open("Example.txt","a") as file1:`
- ☐ `with open("Example.txt","r") as file1:`

✓ Correct

25. What are the 3 parts to a URL?

0 / 1 point

- ☐ Put, route, and get
- ☐ Block, post, and route
- ☐ Scheme, internet address, and route
- ☒ Get, post, and scheme

✗ Incorrect