

## Your grade: 88%

Your latest: 88% • Your highest: 88% • To pass you need at least 75%. We keep your highest score.

Next item →

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

1 / 1 point

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

✓ Correct

2. In Python, if you executed `var = '01234567'`, what would be the result of `print(var[:2])`?

1 / 1 point

- ☒ 0246
- ☐ 1357
- ☐ 1234567

✓ Correct

3. What is the Python `find()` method used for?

1 / 1 point

- ☒ The method finds the starting index of a substring
- ☐ The method finds every second index of a substring
- ☐ The method finds the ending index of a substring

✓ Correct

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

1 / 1 point

- ☒ float
- ☐ int
- ☐ str

✓ Correct

5. What is the result of the following code segment: `int(3.99)`

1 / 1 point

- ☒ 3
- ☐ 3.99
- ☐ 4

✓ 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` ?

0 / 1 point

- ☐ float
- ☒ int

✗ Incorrect

8. Dictionary items can be:

1 / 1 point

- ☐ Stored in duplicate keys
- ☐ Only one data type
- ☒ Numerous data types

✓ Correct

9. What does the index of "1" correspond to in a list or tuple?

1 / 1 point

- ☐ The first element
- ☒ The second element
- ☐ the third

✓ Correct

10. What is the result of the following operation: `'1,2,3,4'.split(',')` ?

0 / 1 point

- ☒ `'1','2','3','4'`
- ☐ `['1','2','3','4']`
- ☐ `'1234'`
- ☐ `('1','2','3','4')`

✗ Incorrect

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

1 / 1 point

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

✓ Correct

12. How do you cast the list **A** to the set **a**?

1 / 1 point

- ☐ `a.set()`
- ☒ `a=set(A)`
- ☐ `a=A.dict()`

✓ Correct

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=1

☒ x=6

✓ Correct

☒ x="7"

✓ Correct

14. What statement will execute the remaining code no matter the end result?

1 / 1 point

- ☐ If
- ☐ For
- ☐ While
- ☒ Finally

✓ Correct

15. What add function would return '11'?

1 / 1 point

- ☒ def add(x): return(x+x) add('1')
- ☐ def add(x): return(x+x) add(1)
- ☐ def add(x): return(x+x+x) add('1')

✓ Correct

16. A list cannot be sorted if it contains:

1 / 1 point

- ☐ only same Case strings
- ☐ only numeric values
- ☐ concatenated strings
- ☒ strings and numeric values

✓ Correct

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

1 / 1 point

A=['1','2','3'] for a in A: print(2\*a)

- ☒ 11
- 22
- 33
- ☐ 2
- 4
- 6
- ☐ error: cannot multiply a string by an integer

✓ Correct

18. What code segment would output the following?

1 / 1 point

- 1  
3  
4
- ☒ for i in range(1,5): if (i!=2): print(i)  
☐ for i in range(1,5): if (i==2): print(i)  
☐ for i in range(1,5): if (i!=1): print(i)

✓ Correct

19. What is the height of the rectangle in the class Rectangle?

1 / 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()
```

- ☐ 0  
☒ 3  
☐ 2

✓ Correct

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 line of code would produce the following: array([11, 11, 11, 11, 11])?

0 / 1 point

- ☐ a=np.array([1,1,1,1,1]) a+10  
☐ a=np.array([1,2,1,1,1]) a+10  
☒ a=np.array([1,1,1,1,1]) 11-a

✗ Incorrect

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. What is the method `readline()` used for?

1 / 1 point

- ☐ It reads the entire file all at once
- ☐ It reads 10 lines of a file at a time
- ☒ It helps to read one complete line from a given text file

✓ Correct

24. What mode will write text at the end of the existing text in a file?

1 / 1 point

- ☒ Append "a"
- ☐ Write "w"
- ☐ Read "r"

✓ Correct

25. What is scheme, internet address and route a part of?

1 / 1 point

- ☐ Text file
- ☒ URL
- ☐ Error message

✓ Correct