

## Quiz Submissions - Quiz 2 - venv, pip, unit tests



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Attempt 2

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### Submission View

You successfully submitted your quiz.

#### Question 1

1 / 1 point

What do you need to do to install a module with pip (for example: pytest)?

MULTI SELECT QUESTION - SEVERAL ANSWERS CORRECT

- ☒ Make sure a virtual environment is active before anything
- ☐ Run pip3 install pytest
- ☐ Run sudo pip3 install pytest
- ☒ Run pip install pytest

#### Question 2

1 / 1 point

Select the correct answers in the list below.

Select 3 correct answer(s)

- ☐ Unit tests are required to write object-oriented programs.
- ☐ Unit testing makes Python programs run faster.
- ☒ Unit testing helps developers understand the code.
- ☒ Unit tests are fast to run (less than a few minutes).
- ☒ Developers can find bugs easily using unit tests.

#### Question 3

2 / 2 points

```

1  """This is an example file for a quiz"""
2
3  def print_hello(nb_repeat=1):
4      ....for _ in range(nb_repeat):
5          ....print("Hello there!")
6
7  def mainFunc(name, repeats):
8      ...."""The main function in this program - print hello, a greeting, and hello repeats times"""
9
10     ....print_hello()
11     ....print("Nice to meet you", name, "!")
12
13     ....if repeats > "1":
14         ....print_hello(repeats)
15
16     if __name__ == "__main__":
17         ....mainFunc("Tim")
18         ....mainFunc("Someone else", 10)
19

```

What can you say about the code above? Select all that are correct.

Select 4 correct answer(s)

- ☒ Line 13 should be "if repeats > 1"
- ☐ Line 11 should be print("Nice to meet you" + name + " !")
- ☒ "mainFunc" is not a correct name for a Python function
- ☐ "for \_ in range(nb\_repeat)" is not a valid Python instruction
- ☐ Line 13 should be "if repeats > '0'"
- ☒ The docstring is missing for the function "print\_hello"
- ☒ This code does not run because a parameter is missing on line 17

#### Question 4

2 / 2 points

Look at the following code:

```

def average(my_list):
    ....if not len(my_list):
    ....    ....return 0
    ....
    ....try:
    ....    ....result = sum(my_list) / len(my_list)
    ....except ValueError:
    ....    ....raise TypeError("List should only contain numbers.")
    ....
    ....return result

```

And the test file (imports are not shown):

```
def test_average_1():
    result = average([0, 5, 10])
    assert result == 5

def test_average_2():
    result = average(["a", "b", "c"])
    with pytest.raises(ValueError):
        assert result

def test_average_3():
    average([]) == 0
```

Select the correct answers in the list.

Select 3 correct answer(s)

- ☒ The exception should be TypeError in test\_average\_2
- ☒ test\_average\_3 passes, but is not a useful test
- ☒ Testing for exception is done wrong in test\_average\_2
- ☐ test\_average\_1 should test for a float value because of the division: assert result == 5.0

▶ [View question 4 feedback](#)

## Question 5

1 / 1 point

```
def my_func(value):
    print("Hello", value)

if __name__ == "__main__":
    text = my_func("Tim")
    print(text)
```

What's wrong in the code above?

Select 2 correct answer(s)

- ☒ my\_func is missing a docstring
- ☐ my\_func is not a valid name for a Python function
- ☒ my\_func does not return any values - text is None
- ☐ The "value" argument should have a default value

## Question 6

2 / 2 points

```
list = [1, 2, 3, 4]

for myVar in range(len(list)):
    print(list[myVar])
```

How would you improve the code above?

- ☐ Iterate directly over the list elements:

```
my_list = [1, 2, 3, 4]

for my_var in len(my_list):
    print(my_var)
```

- ☒ Use a list comprehension:

```
my_list = [1, 2, 3, 4]

print("\n".join([str(elem) for elem in my_list]))
```

- ☐ Use a compact syntax:

```
my_list = [1, 2, 3, 4]

for my_var in my_list: print(my_var)
```

- ☐ Fix the variable names:

```
my_list = [1, 2, 3, 4]

for my_var in range(len(my_list)):
    print(my_list[my_var])
```

▶ [View question 6 feedback](#)

## Question 7

1 / 1 point

How do you create a virtual environment in the folder "myenv" using Python3 ?

- ☐ python -m myenv venv
- ☒ python -m venv myenv
- ☐ virtualenv myenv
- ☐ venv myenv

### Question 8

1 / 1 point

Which of the following names do NOT respect the naming conventions (PEP8) *for variables*?  
Select all that apply.

Select 2 correct answer(s)

- ☐ total\_price
- ☒ totalPrice
- ☒ TotalPrice
- ☐ \_total\_price
- ☐ TOTAL\_PRICE

▶ [View question 8 feedback](#)

Attempt Score: 11 / 11 - 100 %

Overall Grade (highest attempt): 11 / 11 - 100 %

Done