

Go through the questions and make sure that everybody understands both the question and the answers (also the wrong answers) - and remember to read everything carefully!

Question 1

What will happen when you run this piece of code?

```
x = 5
y = 4
while x > y:
    x += 1
    y += 1
```

- It runs once, then stops
- The while loop will run infinitely
- It will throw an Index error

Question 2

What happens when you execute this piece of code?

```
def my_function(x):
    return 3 * x == 15

print(my_function(5))
```

- It throws an error - you can't write ==
- It prints True
- It prints 5

Question 3

What is the advantage of using a function?

- It executes automatically when you run a script or open a notebook
- It is a reusable piece of code
- It can make some calculations easier, but in general one should avoid them to make debugging easier

Question 4

Which of the following statements are *true* reasons to use Jupyter Notebooks instead of an IDE like PyCharm or VS Code?

- Even if they're not free, Jupyter Notebooks are cheap - and since they're paid software, you can be sure that it is well-maintained
- You can execute only parts of your code instead of executing everything at once
- Notebooks can easily be given to non-developers so they can study the results of your work, and you can also add images
- Jupyter Notebooks always run in the cloud, so you don't use your computer's resources - a big advantage if your computer is slow

Question 5

Which of these is/are (there might be more than one correct answer) an immutable data type in Python?

- List
- Tuple
- String

Question 6

You have imported Python's math module with the following statement: `import math`. What should you write in your code to assign the square root of 25 to the variable `my_root`?

```
my_root = sqrt(25)
my_root = 25.sqrt()
my_root = math.sqrt(25)
```

One of the two incorrect answers would have worked if you had imported the module in a different way. Which one and how?

Question 7

Only one of these options is a correct way of committing in git. Which one?

- Run `git commit`, then `git push`
- Run `git add .` and then `git commit`
- Run `git add .` and then `git commit -m`

Question 8

What error will this code throw and why?

```
my_str = 'Hello World!'
```

- Syntax error
- Name error
- Type error

Question 9

Name at least one keyboard shortcut in a Jupyter Notebook.