

STUDENT VERSION (Backend Sprint-1 Week-1)



CLARUSWAY
WAY TO REINVENT YOURSELF

Meeting Agenda

- ▶ Icebreaking
- ▶ Questions
- ▶ Interview Questions
- ▶ Coding Challenge
- ▶ Video of the week
- ▶ Retro meeting
- ▶ Case study / project

Teamwork Schedule

Ice-breaking

5m

- Personal Questions (Stay at home & Corona, Study Environment, Kids etc.)
- Any challenges (Classes, Coding, studying, etc.)
- Ask how they're studying, give personal advice.
- Remind that practice makes perfect.

Team work

5m

- Ask what exactly each student does for the team, if they know each other, if they care for each other, if they follow and talk with each other etc.

Ask Questions

15m

1. In which programming language is Django written??

- A. C++
- B. Java
- C. Python
- D. Ruby

2. Which of the following are valid ways to specify the string literal foo'bar in Python?

- A. ""foo'bar""
- B. 'foo\'bar'
- C. 'foo'bar'
- D. 'foo''bar'
- E. "foo'bar"

3. What is the output of the following code snippet in Python?

```
if 'bar' in {'foo': 1, 'bar': 2, 'baz': 3}:  
    print(1)  
    print(2)  
    if 'a' in 'qux':  
        print(3)  
print(4)
```

A.

1
2
4

B.

1
2
3
4

C. It doesn't generate any output.

D. 4

4. What is the expression involving x that accesses the value 30 in Python?

```
x = [  
    'a',  
    'b',  
    {  
        'foo': 1,  
        'bar':  
            {  
                'x' : 10,  
                'y' : 20,  
                'z' : 30  
            },  
        'baz': 3  
    },  
    'c',  
    'd'  
]
```

5. Consider again this nested list above, is the following statement True or False?

```
'z' in x[2]
```

- A. True
- B. False

6. What is the correct way to instantiate this Dog class in Python?

```
class Dog:
    def __init__(self, name, age):
        self.name = name
        self.age = age
```

- A. Dog()
- B. Dog.create("Rufus", 3)
- C. Dog.__init__("Rufus", 3)
- D. Dog("Rufus", 3)

7. In Python, what is a function within a class definition?

- A. Operation
- B. Method
- C. Callable
- D. Class function

8. What's the output of the following code snippet?

```
class Dog:
    def walk(self):
        return "*walking*"

    def speak(self):
        return "Woof!"

class JackRussellTerrier(Dog):
    def talk(self):
        return super().speak()

bobo = JackRussellTerrier()

bobo.talk()
```

- A. Woof!
- B. *walking*
- C. CanineError: Tail curvature exceeded

9. Which SQL keyword is used to sort the result-set?

- A. SORT
- B. ORDER
- C. SORT BY
- D. ORDER BY

10. With SQL, how do you select all the records from a table named "Persons" where the value of the column "FirstName" is "Peter"?

- A. SELECT * FROM Persons WHERE FirstName='Peter'
- B. SELECT * FROM Persons WHERE FirstName<>'Peter'
- C. SELECT [all] FROM Persons WHERE FirstName='Peter'
- D. SELECT [all] FROM Persons WHERE FirstName LIKE 'Peter'

Interview Questions**15m****1. What is PEP 8 and why is it important in Python?****2. What are decorators in Python?****3. What is pass in Python?****4. What is a Foreign Key in SQL?****5. When you've disagreed with coworkers, how did you handle it??****Coding Challenge****20m**

- [Python Coding Challenge](#)



Coffee Break

10m



Video of the Week

10m

- [What You Need to Know to be a Backend Developer](#)

Retro Meeting on a personal and team level

5m

Ask the questions below:

- What went well?
- What went wrong?
- What is the improvement areas?

Case study/Project

15m

First App - Welcome to BackEnd

- [Create your first Django App!](#)

SQL to ORM

- [SQL to ORM!](#)

Closing

5m

-Next week's plan

-QA Session