

STUDENT VERSION (BackEnd 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.

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' statement 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!](#)

Closing

5m

-Next week's plan

-QA Session
