TEAM LEAD VERSION (TW-7)

TEAMWORK

CLARUSWAY
WAY TO REINVENT YOURSELF

Meeting Agenda

▶ Icebreaking

▶ Questions

▶ Interview Questions

▶ Coffee Break

▶ Logical Reasoning Questions

▶ Video of the week

▶ Retro meeting

▶ Case study / project

Teamwork Schedule

Ice-breaking   10m

- 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.

Ask Questions   15m

1. What will be the output of the following Python code?

```python
for x in set('pqr'):
    print(x*2)
```

A.

```
pqr
pqr
```

B.

```
qqpprr
```

C.

```
ppqqrr
```

D.

```
rr
qq
pp
```

+*Answer: D*

2. Which of the following statements create a dictionary?

A. d = {}
B. d = {"john":40, "peter":45}
C. d = {40:"john", 45:"peter"}
D. All of the mentioned

+*Answer: D*

3. What is the output of the following program?

```
d = {"john":40, "peter":45}
d["john"]
```

A. 40
B. 45
C. "john"
D. "peter"

+*Answer: A*

4. What would this expression return in Python?

```
d = {"john":40, "peter":45}
print(list(d.keys()))
```

A. ("john":40, "peter":45)
B. ("john", "peter")
C. ["john", "peter"]
D. ["john":40, "peter":45]

+*Answer: C*

5. What is the output of the code shown below?

```
a={}
a['a']=1
```

```
    a['b']=[2,3,4]
    print(a)
```

A. Exception is thrown
B. {'b': [2], 'a': 1}
C. {'b': [2, 3, 4], 'a': 1}
D. {'b': [2], 'a': [3]}

+*Answer: C*

6. What is the output of the code shown below?

```
    z=set('abc')
    z.add('san')
    z.update(set(['p', 'q']))
    print(z)
```

A. {'abc', 'p', 'q', 'san'}
B. {'a', 'b', 'c', 'p', 'q', 'san'}
C. {'a', 'b', 'c', ['p', 'q'], 'san}
D. {'a', 'c', 'c', 'p', 'q', 's', 'a', 'n'}

+*Answer: B*

7. What is the term to describe this code?

```
    count, fruit, price = (2, 'apple', 3.5)
```

A. tuple assignment
B. tuple unpacking
C. tuple matching
D. tuple duplication

+*Answer: B*

8. What is the output of the code shown below??

```
    college_years = ['Freshman', 'Sophomore', 'Junior', 'Senior']
    print(list(enumerate(college_years, 2019)))
```

A. [('Freshman', 2019), ('Sophomore', 2020), ('Junior', 2021), ('Senior', 2022)]
B. [(2019, 2020, 2021, 2022), ('Freshman', 'Sophomore', 'Junior', 'Senior')]
C. [('Freshman', 'Sophomore', 'Junior', 'Senior') (2019, 2020, 2021, 2022)]
D. [(2019, 'Freshman'), (2020, 'Sophomore'), (2021, 'Junior'), (2022, 'Senior')]

+*Answer: D*

9. After you install Git and prior to issuing the first commit, which two configuration properties does the tool expect to be configured?

A.username and email address
B.username and password
C.email address and password
D. username and IP address

+*Answer: A*

10. Who is attributed with inventing Git?

A.Junio Hamano
B.James Gosling
C.Kohsuke Kawaguchi
D.Linus Torvalds

+*Answer: D*

11. After you initialize a new Git repository and create a file named git-quiz.html, which of the following commands will not work if issued?

A.git add git-quiz.html
B.git status
C.git add .
D.git commit -m "git quiz web file added"

+*Answer: D Each of these commands will succeed with the exception of the Git commit. In order to make a file part of a commit, first, add it to the Git index by using the add command. After staging a file by adding it to the index, a Git commit can be issued.*

12. Which vendor acquired GitHub for $7.5 billion in June 2018?

A.Oracle
B.Microsoft
C.IBM
D.Google

+*Answer: A*

13. Select the appropriate HTML tag used for the largest heading?

A.Head
B.H1
C.H6
D.Heading

+*Answer: B*

14. Select the property that is used to create spacing between HTML elements?

A.margin
B.spacing
C.padding
D.border

+*Answer: C*

15.Select the correct HTML for creating a hyperlink?

A.a url="http://www.clarusway.com">clarusway.com
B.<a href="http://www.clarusway.com">clarusway
C. a>http://www.clarusway.com
D. name="http://www.clarusway.com">clarusway.com

+*Answer: B*

Interview Questions   15m

1. Explain Python functions?

Answer: A function is a section of the program or a block of code that is written once and can be executed whenever required in the program. A function is a block of self-contained statements which has a valid name, parameters list, and body. Functions make programming more functional and modular to perform modular tasks. Python provides several built-in functions to complete tasks and also allows a user to create new functions as well.
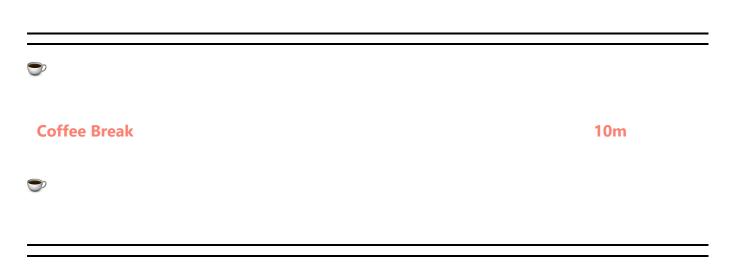
There are two types of functions:

- **Built-In Functions: copy(), len(), count() are the some built-in functions.**
- **User-defined Functions: Functions which are defined by a user known as user-defined functions.**

2. Discuss the differences between an HTML specification and a browser's implementation thereof?

Answer: HTML specifications such as HTML5 define a set of rules that a document must adhere to in order to be "valid" according to that specification. In addition, a specification provides instructions on how a browser must interpret and render such a document.

A browser is said to "support" a specification if it handles valid documents according to the rules of the specification. As of yet, no browser supports all aspects of the HTML5 specification (although all of the major browser support most of it), and as a result, it is necessary for the developer to confirm whether the aspect they are making use of will be supported by all of the browsers on which they hope to display their content. This is why cross-browser support continues to be a headache for developers, despite the improved specificiations.

☕

Coffee Break   10m

☕

Logical Reasoning Questions   15m

1. In this logic question, you are standing in a room with three light switches. The switches all correspond to three different light bulbs in an adjacent room that you cannot see into. With all the light switches starting in the off position, how can you find out which switch connects to which light bulb?

Answer: I would turn on the first switch and let it stay on for a few minutes. Then, I'd turn the first switch off and quickly turn on the second switch. Then, checking the room, I'd see the second bulb turned on and feel the other two bulbs to see which one is warmer. The warmer bulb is the one I just turned off, so that belongs to the first switch, while the bulb that's on belongs to the second switch. The third switch would belong to the bulb that is off and coolest to the touch.

2. Which number would replace the underline mark in the series 20, 40, 100, _, 820?

A. 240
B. 260
C. 280
D. 300

Answer: In this series, the difference between consecutive numbers is multiplied by 3; 20, 60, 180, 540.

Therefore, the missing number would be 100 + 180 = 280 (option C)

3. Kevin, Joseph, and Nicholas are 3 brothers. If the following statements are all true, which of them is the youngest?

```
✓ Kevin is the oldest.
✓ Nicholas is not the oldest.
```

> ✓ Joseph is not the youngest.

A. Joseph

B. Kevin

C. Nicholas

D. Both Joseph and Nicholas

Answer: Kevin, Joseph, and Nicholas are 3 brothers. To find the youngest of the three?

By hypothesis, Kevin is the oldest of the three. Therefore Kevin can't be the youngest. So Kevin is eliminated.

We are left with Joseph and Nicholas. Since Kevin is not the youngest, either Joseph or Nicholas is the youngest. But it is given in the question that Joseph is not the youngest.

Therefore Nicholas is the youngest.

Video of the Week   10m

- **The Gitflow Workflow**
- **HTML, CSS, JavaScript**

Retro Meeting on a personal and team level   10m

Ask the questions below:

- **What went well?**
- **What could be improved?**
- **What will we commit to do better in the next week?**

Closing   5m

- **Next week's plan**

- **QA Session**