

# TEAM LEAD VERSION (TW-7)

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WAY TO REINVENT YOURSELF

## Meeting Agenda

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- ▶ Icebreaking
- ▶ Questions
- ▶ Interview Questions
- ▶ Coffee Break
- ▶ Logical Reasoning Questions
- ▶ Video of the week
- ▶ Retro meeting
- ▶ Case study / project

# Teamwork Schedule

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## 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?

```
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. which of the following tag <...> is used to mark a begining of paragraph?**

- A. pr
- B. td
- C. br
- D. p

+Answer: D

**10. .... includes the existing system, the proposed system, system flow charts, modular design of the system, print layout charts and data file designs.**

- A. Feasibility Report
- B. Functional Specification Report
- C. Design Specification Report
- D. Terms of Reference

+Answer: C

**11. To create and view an HTML page, you need \_\_\_\_?**

- A. Web browser
- B. text editor
- C. Both [A] and [B]
- D. None of the above

+Answer: C

**12. What does the < br > tag add to your webpage?**

- A. Long break
- B. Paragraph break
- C. Line break
- D. None of the above

+Answer: C

**13. Breaking the system modules into smaller programs and allocating these programs to the members of the system development team is the activity involved in .....**

- A. System Design Phase
- B. System Development Phase
- C. System Analysis Phase
- D. System Implementation Phase

+Answer: B

## Interview Questions

15m

### 1. What are some of the key new features in HTML5?

**Answer:** Key new features of HTML5 include:

- Improved support for embedding graphics, audio, and video content via the new `< canvas >`, `< audio >`, `< video >` tags.
- Extensions to the JavaScript API such as geolocation and drag-and-drop as well for storage and caching.
- Introduction of "web workers".
- Several new semantic tags were also added to complement the structural logic of modern web applications. These include the `< main >`, `< nav >`, `< article >`, `< section >`, `< header >`, `< footer >`, and `< aside >` tags.
- New form controls, such as `< calendar >`, `< date >`, `< time >`, `< email >`, `< url >`, `< search >`

### 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 specifications.



## Coffee Break

10m



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## 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](#)
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## 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?
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## Closing

5m

- Next week's plan
  - QA Session
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