

TEAM LEAD VERSION (TW-7)



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 (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. If we want define style for an unique element, then which css selector will we use?

- A. Id
- B. class
- C. text
- D. name

Answer: A

10. Where do < header > and < footer > tags typically occur?

- A. as children of < body >, < article >, < aside >, and < section > tags
- B. as children of < body >, < article >, and < section > tags
- C. as children of < body >, < article >, < aside >, < nav >, and < section > tags
- D. as children of < body >, < article >, < table >, and < section > tags

Answer: B

11. The "value" attribute is associated with which set of tags?

- A. < button > < input > < form >
- B. < input > < label > < meter >
- C. < input > < option > < textarea >
- D. < li > < input > < option >

Answer: D

12. What is NOT a valid attribute for the < textarea > element?

- A. readonly
- B. max
- C. form
- D. spellcheck

Answer: B

13. What is the linux mascot?

- A. Hat
- B. Gecko
- C. Elephant
- D. Penguin

Answer: D

14. The Linux Kernel was written by?

- A. Brian Kernighan
- B. Linus Torvalds
- C. Dennis Ritchie
- D. Richard Stallman

Answer: B

Interview Questions

15m

1. What is Linux?

Answer: Linux is an operating system based on UNIX and was first introduced by Linus Torvalds. It is based on the Linux Kernel and can run on different hardware platforms manufactured by Intel, MIPS, HP, IBM, SPARC, and Motorola. Another popular element in Linux is its mascot, a penguin figure named Tux.

2. What is difference between LINUX and UNIX?

Answer: Although there are multiple differences between LINUX and UNIX, enlisted points in the below cover all the major differences.

- LINUX is an open source software development and free operating system used for computer hardware & software, game development, PCs, etc. UNIX is an operating system which is basically used in Intel, HP, internet servers, etc.
- LINUX has priced as well as freely distributed and downloaded versions. Different versions/flavours of UNIX have different price structures.
- Users of this operating system could be anyone including home users, developers, etc. This operating system was basically developed for mainframes, servers and workstations except for OSX which is designed such that it can be used by anyone. File support system includes Ext2, Ext3, Ext4, Jfs, Xfs, Btrfs, FAT, etc. File support system includes jfs, gpfs, hfs, etc. BASH (Bourne Again Shell) is the Linux default shell i.e. text mode interface which supports multiple command interpreters. Bourne shell serves as the text mode interface which is now compatible with many others including BASH.
- LINUX provides two GUIs, KDE and Gnome. Common desktop environment was created which serves as a GUI for UNIX. Examples: Red Hat, Fedora, Ubuntu, Debian, etc. Examples: Solaris, All Linux It provides higher security and has about 60-100 viruses listed till date. It is also highly secured and has about 85-120 viruses listed till date.



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

- [What is Linux?](#)

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
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