

STUDENT VERSION (TW-5)



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 is the term to describe this code in Python?

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

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

Answer: B

2. What built-in list method would you use to remove items from a list in Python?

- A. ".delete()" method
- B. pop(my_list)
- C. del(my_list)
- D. ".pop()" method

Answer: D

3. What built-in Python data type is commonly used to represent a stack?

- A. set
- B. list
- C. dictionary
- D. None. You can only build a stack from scratch.

Answer: B

4. What would this expression return in Python?

```
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

5. Given the following three list, how would you create a new list that matches the desired output printed below in Python?

```
fruits = ['Apples', 'Oranges', 'Bananas']
quantities = [5, 3, 4]
prices = [1.50, 2.25, 0.89]
# Desired output
[('Apples', 5, 1.50),
 ('Oranges', 3, 2.25),
 ('Bananas', 4, 0.89)]
```

A.

```
fruits = ['Apples', 'Oranges', 'Bananas']
quantities = [5, 3, 4]
prices = [1.50, 2.25, 0.89]
output=[]

fruit_tuple_0 = (fruits[0], quantities[0], prices[0])
output.append(output)
fruit_tuple_1 = (fruits[1], quantities[1], prices[1])
output.append(output)
fruit_tuple_2 = (fruits[2], quantities[2], prices[2])
output.append(output)
print(fruit_tuple_0, fruit_tuple_1, fruit_tuple_2)
```

B.

```
fruits = ['Apples', 'Oranges', 'Bananas']
quantities = [5, 3, 4]
prices = [1.50, 2.25, 0.89]
i = 0
output = []
for fruit in fruits:
    temp_qty = quantities[i]
    temp_price = prices[i]
    output.append((fruit, temp_qty, temp_price))
```

```
i += 1
print(output)
```

C.

```
fruits = ['Apples', 'Oranges', 'Bananas']
quantities = [5, 3, 4]
prices = [1.50, 2.25, 0.89]

groceries = zip(fruits, quantities, prices)
print(list(groceries))
```

D.

```
fruits = ['Apples', 'Oranges', 'Bananas']
quantities = [5, 3, 4]
prices = [1.50, 2.25, 0.89]
i = 0
output = []
for fruit in fruits:
    for qty in quantities:
        for price in prices:
            output.append((fruit, qty, price))
    i += 1
print(output)
```

Answer: B and C

6. Which directory contain device special files?

- A. /etc
- B. /etc/dev
- C. /root/bin
- D. /dev

Answer: D

7. In Linux, The file permission 764 means:?

- A. Every one can read, group can execute only and the owner can read and write
- B. Every one can read and write, but owner alone can execute
- C. Every one can read, group including owner can write, owner alone can execute
- D. Every one can read and write and execute

Answer: C

8. The permission -rwxr--r-- represented in octal expression will be?

- A. 777
- B. 666
- C. 744
- D. 711

Answer: C

9. Command used to count number of character in a file is

- A. grep
- B. wc
- C. count
- D. cat

Answer: B

10. The complete path name of a file or directory is

- A. Root name
- B. Tree name
- C. Relative path name
- D. Absolute path name

Answer: D

11. In Linux, if all the members of the group share their files, they are called as?

- A. File owner
- B. Other users
- C. File users
- D. Group users

Answer: D

12. When you are in the command mode in Vim editor, what takes you to the line editing mode?

- A. Cursor
- B. : colon
- C. Esc
- D. Enter

Answer: B

13. What kind of list will < ol > tags create?

- A. Numbered list
- B. Bulleted list
- C. Unordered list
- D. None of the above *Answer: A*

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

- A. Head
- B. H1
- C. H6
- D. Heading *+Answer: B*

Interview Questions**15m****1. What is the major difference between tuples and lists in Python?**

Answer: There are several major differences between tuples and lists in Python, which include the following:

Tuples

- Tuples are similar to a list, but they are enclosed within parenthesis, unlike the list.
- The element and size can NOT be changed.
- They cannot be updated.
- They act as read-only lists.
- Tuples are surrounded by ()
- Example of Tuple Code is, `tup = (1, "a", "string", 1+2)`

Lists

- The list is used to create a sequence.
- The element and size can be changed.
- They can be updated.
- Lists are surrounded by []
- Example of Lists Code is, `L = [1, "a", "string", 1+2]`



Coffee Break**10m**

Logical Reasoning Questions**15m**

1. A man is facing west. He turns 45 degrees in the clockwise direction and then another 180 degrees in the same direction and then 270 degrees in the anticlockwise direction. Find which direction he is facing now?

- A. A. South-West
- B. West
- C. South
- D. East-South *Answer: A*

2. In this question, five words have been given, out of which four Arrange the words given below in a meaningful sequence?

1.Elephant 2.Cat 3.Mosquito 4.Tiger 5. Whale

- A. 5, 3, 1, 2, 4
 - B. 3, 2, 4, 1, 5
 - C. 1, 3, 5, 4, 2
 - D. 2, 5, 1, 4, 3 *Answer: B*
-

Video of the Week**10m**

- [How to Prepare for a Virtual Interview](#)
-

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
-