

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 (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

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

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.

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')]

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)
```

6. How many Primary keys can have in a table?

- A. Only 1
- B. Only 2
- C. Depends on no of Columns
- D. Depends on Database

7. Which of the following is not a valid aggregate function?

- A. COUNT
- B. COMPUTE
- C. SUM
- D. MAX

8. Which data manipulation command is used to combines the records from one or more tables?

- A. SELECT
- B. PROJECT
- C. JOIN
- D. PRODUCT

9. Which operator is used to compare a value to a specified list of values?

- A. ANY
- B. BETWEEN
- C. ALL
- D. IN

10. What happens in the design phase of SDLC?

- A. The code is produced
- B. Making changes when the software has been created
- C. Planning the solution, look and feel of the software interface
- D. Ensuring the requirements are understood

11. This phase of the SDLC is known as the “ongoing phase” where the system is periodically evaluated and updated as needed

- A. Preliminary investigation
- B. System design
- C. System implementation
- D. System maintenance

12. Which of the following are valid step in SDLC framework?

- A. Requirement Gathering
- B. System Analysis
- C. Software Design
- D. All of the above

13. Which of the following is not a software development life cycle model?

- A. Agile model
- B. RAD model
- C. Waterfall model
- D. Sequential model

14. Verification is the responsibility of ?

- A. Developer
- B. Analyst
- C. QA Team
- D. Designer

Interview Questions

15m

1. What is the major difference between tuples and lists in Python?

2. What is the difference between a primary key and a unique key?



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. South-West
- B. West
- C. South
- D. East-South

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

Video of the Week

10m

- [What is HTML?](#)

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
-