

TW-01 STUDENT VERSION (Sprint-1 Week-2)



CLARUSWAY
WAY TO REINVENT YOURSELF

Meeting Agenda

- ▶ Icebreaking
- ▶ Questions
- ▶ Interview Questions
- ▶ Coding Challenge
- ▶ Video of the week
- ▶ Retro meeting

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**20m****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
```

2. What is the output of the following program?

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

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

3. What would this expression return in Python?

```
D = {1 : 1, 2 : '2', '1' : 1, '2' : 3}
D['1'] = 2
print(D[D[D[str(D[1])]]])
```

- A. KeyError
- B. '2'
- C. 3
- D. 2

4. What will be the output of the following Python code snippet?

```
x = 'abcd'
for i in range(len(x)):
    i[x].upper()
print (x)
```

- A. abcd
- B. ABCD
- C. error
- D. aBcD

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

```
a=[1,2,3,4]
b=[sum(a[0:x+1]) for x in range(0,len(a))]
print(b)
```

- A. [1,3,5,7]
- B. [1,3,6,10]

- C. 10
- D. [1,3,5]

6. 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')]

7. What will be the output of the following Python statement?

```
example = "snow world"  
print("{}".format(example[4:7]))
```

- A. wo
- B. world
- C. sn
- D. rl

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

```
print("xyyzxyzxy".endswith("xy", 0, 2))
```

- A. 0
- B. 1
- C. True
- D. False

9. Which choice is NOT a statement you would use to filter data in SQL?

- A. GROUP_BY
- B. WHERE
- C. LIMIT
- D. LIKE

10. If you need to order a table of movies by name, which query will work in SQL?

- A. **SELECT * FROM movies GROUP BY name**
- B. SELECT * FROM movies ORDER BY name
- C. SELECT * FROM movies ORDER TABLE by name
- D. SELECT * FROM movies FILTER BY name

11. You are working with very large tables in your database. Which SQL clause do you use to prevent exceedingly large query results?

- A. UNIQUE
- B. LIMIT
- C. **DISTINCT**
- D. CONSTRAINT

Interview Questions

20m

1. How memory is managed in Python?

Memory management in Python involves the management of a private heap. A private heap is a portion of memory that is exclusive to the Python process. All Python objects and data structures are stored in the private heap. The operating system cannot allocate this piece of memory to another process.

2. What do you mean by a table and a field in SQL?

Tables contain rows and columns, where the rows are known as records and the columns are known as fields. A column is a set of data values of a particular type (like numbers or alphabets), one value for each row of the database, for example, Age, Student_ID, or Student_Name.

3. What is the difference between list and tuples in Python?

Coding Challenge

10m

Students should work in small teams to complete the coding challenge at workshop activity(Saturday).

- [Python Loops and Iterations](#)
-
-



Coffee Break

10m



Video of the Week

15m

- [Loops and Iterations\(~11 min\)](#)

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
