

STUDENT VERSION (AWS & DevOps-TW-3)



CLARUSWAY
WAY TO REINVENT YOURSELF

Meeting Agenda

- ▶ Icebreaking
- ▶ Questions
- ▶ Interview Questions
- ▶ 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

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. 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]

7. What is the output of the following program?

```
L1 = []
L1.append([1, [2, 3], 4])
L1.extend([7, 8, 9])
print(L1[0][1][1] + L1[2])
```

- A. 12
- B. 11
- C. 13
- D. 10

8. What is the output of the following program?

```
T = (1, 2, 3, 4, 5, 6, 7, 8)
print(T[T.index(5)], end = " ")
print(T[T[T[6]-3]-6])
```

- A. 4 0
- B. 4 1
- C. 5 8
- D. 5 IndexError

9. 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

10. What is the output of the code shown below?

```
set1 = {1, 2, 3}
set2 = set1.copy()
set2.add(4)
print(set1)
```

- A. {1, 2, 3, 4}
- B. Invalid Syntax
- C. Error
- D. {1, 2, 3}

11. The Linux Kernel was written by?

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

12. What will show you all the subdirectories of the current directory?

- A. ls
- B. rm
- C. pwd
- D. cd

13. What does the pwd command do?

- A. It saves the current working directory, so that you can return there with the pwd command
- B. It asks the password of the current user, and the prompts for a new password
- C. It prints the path of the current working directory
- D. It launches the power management daemon

14. Which of the following command helps to create directory called test?

- A. mkdir test
- B. md test
- C. dir test
- D. None of the above

15. Which option of rm command is used to remove a directory with all its subdirectories?

- A. -b
- B. -p
- C. -o
- D. -r

16. Which directory contain device special files?

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

17. The prompt of the root user is?

- A. @
- B. #
- C. %
- D. \$

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

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

Interview Questions**15m**

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

2. What do you understand by the Root account?

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
-