TW-08 GROUP VERSION

TEAMWORK

CLARUSWAY
WAY TO REINVENT YOURSELF

Meeting Agenda

- Icebreaking
- Workshop Activities
  - Questions
- Teamwork Activities
  - Interview Questions
  - Video of the week
  - Case study / project
- Retro meeting

Workshop Activities 90m

Ask Questions 30m

1. Sass is a _____.

A. Scripting language
B. Markup language
C. CSS pre-processor
D. Programming Language

2. Sass stands for _____.

A. Semantically Awesome Stylesheet
B. Syntactically Awesome Stylesheet
C. Simple Awesome Stylesheet
D. Syntax-based Awesome Stylesheet

3. What are the benefits of using SASS?

A. It is a pre-processing language which provides its own syntax for CSSwrong
B. It is a superset of CSS which contains all the features of CSS and is an open source pre-processor, coded in Ruby
C. It is more stable and powerful CSS extension and style documents more clearly and structurally
D. All of the above

4. In which year was SASS introduced?

A. 2005
B. 2006
C. 2008
D. 2009

5. Which of the following directive displays the SassScript expression value as fatal error?

A. @error
B. @warn
C. @at-root
D. None of the above

6. SASS was created by...

A. Linus Torvalds
B. Brendan Eich
C. Hampton Catlin
D. Guido van Rossum

7. In Sass, which of the following is the correct way to define a variable?

A. #primary-color: #888;
B. @primary-color: #888;
C. %primary-color: #888;
D. $primary-color: #888;

8. Which is the correct syntax to declare a variable "myfonts" assigning the two font names?

A. $myfonts: Helvetica, and sans-serif;
B. $myfonts: Helvetica, sans-serif;
C. $myfonts: "Helvetica, sans-serif";
D. $myfonts: "Helvetica+sans-serif";

9. Which directive is used to create CSS code that is to be reused throughout the website?

A. @import
B. @define
C. @mixin
D. All of the above

10. Which directive is used to share a set of CSS properties from one selector to another?

A. @share
B. @import
C. @transfer
D. @extend

11. Which loop runs as long as the specified condition evaluates to true?

A. for loop
B. while loop
C. do-while loop
D. for...in loop

12. How many times will the following for loop execute?

```
for (let i = 0; i < 5; i++) {
    console.log(i);
}
```

A. 3 times
B. 4 times
C. 5 times
D. 6 times

13. What does the break statement do in a loop?

A. Skips the next iteration
B. Ends the loop immediately
C. Continues to the next iteration
D. Resets the loop counter

14. Which loop is guaranteed to execute the code block at least once?

A. for loop
B. while loop
C. do-while loop
D. for...in loop

15. What does the continue statement do in a loop?

A. Exits the loop completely
B. Resets the loop counter
C. Reinitializes the loop condition
D. Skips the current iteration and continues with the next one

16. What happens if the loop condition of a while loop is initially false?

A. The loop will never run
B. The loop runs indefinitely
C. The loop runs once
D. The loop generates a syntax error

17. What does the following code snippet do?

```
let i = 0;
while (i < 3) {
    console.log(i);
    i++;
}
```

A. Prints numbers from 1 to 3
B. Prints numbers from 0 to 2
C. Prints numbers from 1 to 2
D. Prints numbers from 0 to 3

18. What does the following code snippet output?

```
for (let i = 0; i < 3; i++) {
    if (i === 1) continue;
    console.log(i);
}
```

A. 012
B. 12
C. 102
D. 02

19. Which loop is recommended when you are uncertain about the number of iterations required?

A. for loop
B. while loop
C. do-while loop
D. for...in loop

20. What will be the output of the following code snippet?

```
let x = 0;
for (; x < 3;) {
    console.log(x);
    x++;
}
```

A. 012
B. 123
C. 0123
D. It gives an error because the initialization and increment parameters for the for loop are not defined.

Coding Challenge 40m

Write a JavaScript program that computes and prints the first n Fibonacci numbers without using any built-in functions (like Math.pow, Math.sqrt, Array methods, etc.) or arrays.

Rules:

```
- You must not use any built-in JavaScript functions related to Fibonacci sequences
or arrays.
- The program should prompt the user for the value of n.
- Display the first n Fibonacci numbers.
```

> Example: For n = 7, the Fibonacci sequence would be: 0, 1, 1, 2, 3, 5, 8

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.

Interview Questions 30m

1. What Are The Number Methods in javaScript?

2.Explain what is a @extend function used for in Sass?

3. Explain how to define a variable in Sass?

4. Explain what is the difference between Sass and SCSS?

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Coffee Break 10m

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Video of the Week 10m

- What is Sass?

Case study/Project 30m

Calculate the Greatest Common Divisor (GCD)

Objective : Write a JavaScript program that calculates and prints the Greatest Common Divisor (GCD) of two given numbers using only conditional statements (if, else if, else) and loops (for, while).

Rules :

```
- You can only use conditional statements (if, else if, else) and loops (for,
while, do while).
- The program should prompt the user for two numbers, a and b.
- Display the calculated GCD on the console.
```

Armstrong Number Checker

Objective : Write a JavaScript program to check if a given number is an Armstrong number using only conditional statements (if, else if, else) and loops (for, while).

Rules :

```
- An Armstrong number (also known as narcissistic number) of three digits is an
integer such that the sum of the cubes of its digits is equal to the number itself.
- You can only use conditional statements (if, else if, else) and loops (for,
while, do while).
- The program should prompt the user for a number.
- Display whether the entered number is an Armstrong number or not.
```

> Example Armstrong numbers:
>
> . 153: $1^3+5^3+3^3 = 1 + 125 + 27 = 153$
>
> . 370: $3^3+7^3+0^3 = 27 + 343 + 0 = 370$
>
> . 371: $3^3+7^3+1^3 = 27 + 343 + 1 = 371$
>
> . 407: $4^3+0^3+7^3 = 64 + 0 + 343 = 407$
>
> . 1634: $1^4+6^4+3^4+4^4 = 1 + 1296 + 81 +256 = 1634$
> . 8208
> . 9474
> . 54748

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 10m

- Next week's plan
- QA Session
