Interviewee: Lim Zhi Cheng

Github Repo: Click here to the repo (all the code can be found in this repo)

Question 1:

Use **Java**, do this coding test & print out the results in terminal:

- Variable "arrayA" is a string array of car brands: ["Honda", "Toyota", "Proton"]
- Add "Nissan" to it. Print it out.
- Add "Mazda" as the first element within the string array. Print it out.
- Now make a new variable "arrayB" which is a string array of animals. Combine both arrays into variable "arrayA". Print it out.
- Variable "mapC" & "mapD" are both separate Map[String, String] objects of employee IDs and employee names, where:

```
    o mapC → ["123": "Justin", "456": "Owen", "789": "Hugo"]
    o mapD → ["123": "George", "555":"Jack", "888": "Julian"]
```

- Combine them both into the variable "mapC" and print it out.
- Print out the reason why the result no longer has the value "Justin"?
- Return values in "mapC" where key contains "5"
- Remove map entries where the value contains the "o" character in "mapC". (ignore case)
- I have a string variable "str" of "111222888222555". Reverse this string and assign it back to variable "str". Print it out.
- Then, replace the last occurrence of "222" in variable "str" with "aaa" and assign it back to variable "str". Print it out.

Code:

```
import java.util.*;

public class Main {
    public static void main(String[] args) {
        // Step 1: Initialize arrayA
        List<String> arrayA = new ArrayList<>(Arrays.asList("Honda",
"Toyota", "Proton"));

    // Step 2: Add "Nissan" to arrayA and print it
        arrayA.add("Nissan");
        System.out.println("After adding 'Nissan': " + arrayA);

        // Step 3: Add "Mazda" as the first element and print it
        arrayA.add(0, "Mazda");
        System.out.println("After adding 'Mazda' as the first element: "
```

```
+ arrayA);
        // Step 4: Create arrayB and combine with arrayA
        List<String> arrayB = Arrays.asList("Cat", "Dog", "Elephant");
        arrayA.addAll(arrayB);
        System.out.println("Combined arrayA: " + arrayA);
       // Step 5: Initialize mapC and mapD
       Map<String, String> mapC = new HashMap<>();
       mapC.put("123", "Justin");
       mapC.put("456", "Owen");
       mapC.put("789", "Hugo");
       Map<String, String> mapD = new HashMap<>();
       mapD.put("123", "George");
        mapD.put("555", "Jack");
       mapD.put("888", "Julian");
       // Step 6: Combine mapD into mapC and print it
       mapC.putAll(mapD);
        System.out.println("Combined mapC: " + mapC);
        // Step 7: Explain why "Justin" is no longer in mapC
        System.out.println("Reason: The key '123' in mapC was
overwritten by the value from mapD.");
        // Step 8: Return values in mapC where the key contains "5"
        System.out.println("Values where key contains '5':");
       mapC.forEach((key, value) -> {
            if (key.contains("5")) {
                System.out.println("Key: " + key + ", Value: " + value);
       });
       // Step 9: Remove entries where the value contains "o" (ignore
       mapC.entrySet().removeIf(entry ->
entry.getValue().toLowerCase().contains("o"));
        String str = "111222888222555";
        String reversedStr = new
StringBuilder(str).reverse().toString();
        System.out.println("Reversed string: " + reversedStr);
       // Step 11: Replace the last occurrence of "222" with "aaa"
```

Results in terminal:

```
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```

Question 2:

Using **Javascript**. Create an array of 10 random integer numbers between 1 - 1000 and use console.log() to display each of the numbers in the array and the sum of the array.

Code:

Results in console:

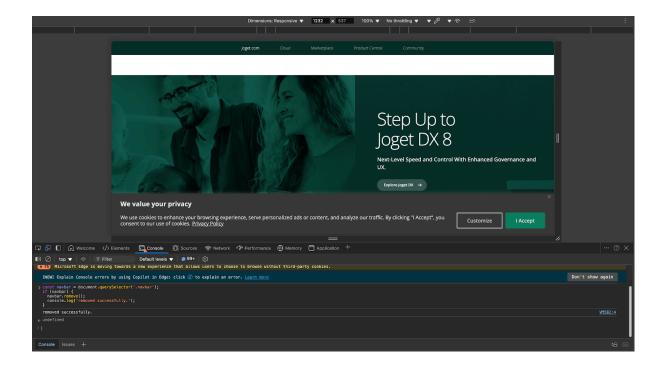
Question 3:

Go to https://www.joget.com/, use **Javascript** to make the nav bar disappear. Send us the code.

Code:

```
const navbar = document.querySelector('.navbar');
if (navbar) {
  navbar.remove();
  console.log('removed successfully.');
}
```

Screenshot:



Question 4:

Using **HTML** and **CSS**, create a simple webpage layout with a header, footer, and main content section. The header should have a background color of blue and contain a centered Joget logo and a navigation menu with links to Home, About, and Contact pages. The main content section should have a white background and contain a heading and a paragraph of text. The footer should have a gray background and contain copyright information and a link to a privacy policy page.

Link to the Web page: click here

Github Repo (code can be found here): click here

HTML screenshot:

CSS screenshot:

Web Page Screenshot:

