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Semester: 5th semester

LAB REPORT 4
WEB TECHNOLOGIES
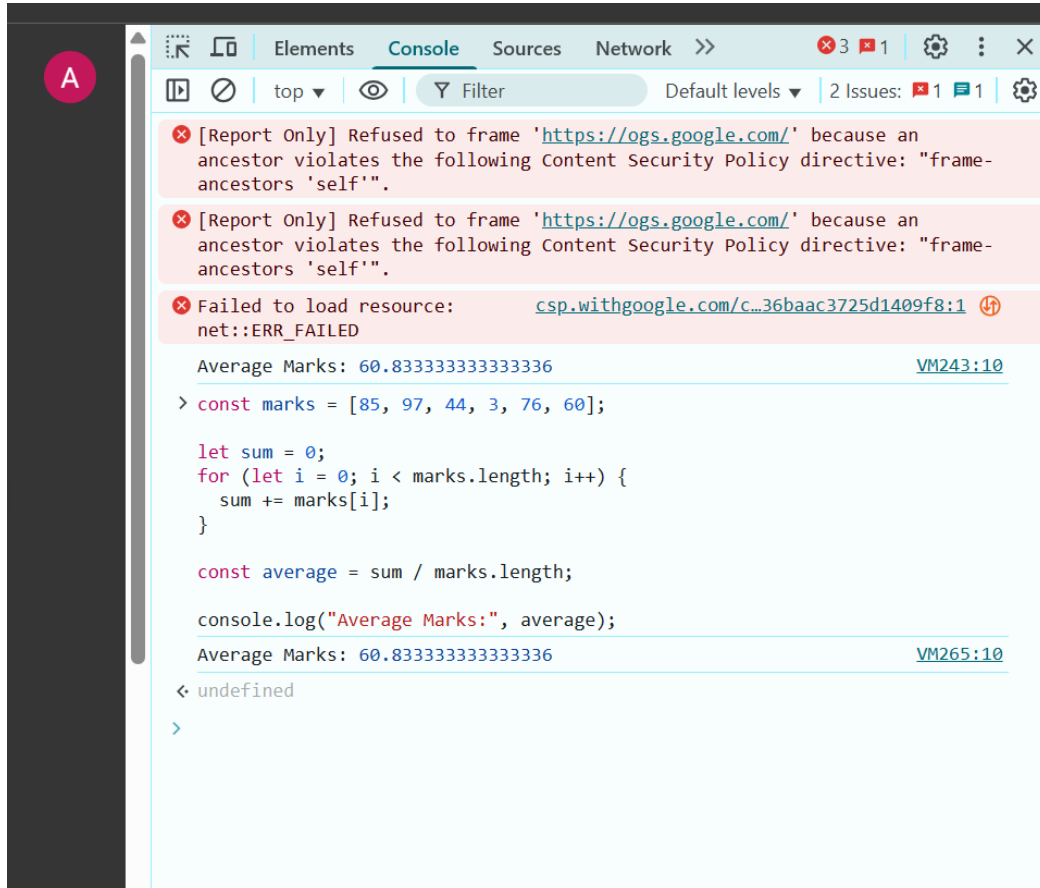## JavaScript Fundamentals & DOM Manipulation

Institute of Space and Technology

Submitted to: Miss Maryam

Practice Task

Q6. For a given array with marks of students -> [85, 97, 44, 37, 76, 60]

Find the average marks of the entire class.

Q5. Create an array to store companies -> "Bloomberg", "Microsoft", "Uber", "Google", "IBM", "Netflix"

a. Remove the first company from the array

b. Remove Uber & Add Ola in its place

c. Add Amazon at the end

```
<-- undefined
> let companies = ["bloomberg", "microsoft", "uber", "google", "ibm",
  "netflix"];

  // a) Remove the first company
  companies.shift();

  // b) Remove "uber" and add "ola" in its place
  companies.splice(1, 1, "ola");   // 1 → index of "uber", 1 → remove one
  item, add "ola"

  // c) Add "amazon" at the end
  companies.push("amazon");

  console.log(companies);
                                                          VM269:12
  ▼ (6) ['microsoft', 'ola', 'google', 'ibm', 'netflix', 'amazon'] i
      0: "microsoft"
      1: "ola"
      2: "google"
      3: "ibm"
      4: "netflix"
      5: "amazon"
      length: 6
    ▶ [[Prototype]]: Array(0)
<-- undefined
>
```

Q4. Get user to input a number using prompt("Enter a number:"). Check if the number is a multiple of 5 or not.

```
> let num = prompt("Enter a number:");
  if (num % 5 === 0) {
     alert(num + " is a multiple of 5");
  } else {
     alert(num + " is not a multiple of 5");
  }
```

chrome://new-tab-page says

Enter a number:

4

OK   Cancel

```
J
```
4 is not a multiple of 5 ✗

Q2. Create a game where you start with any random game number. Ask the user to keep guessing the game number until the user enters correct value.

```javascript
> let gameNum = Math.floor(Math.random() * 10) + 1; // random number
  between 1 and 10
  let userNum = prompt("Guess the game number (1-10):");

  while (userNum != gameNum) {
    userNum = prompt("Wrong guess! Try again:");
  }

  alert("Congratulations! You guessed it right");
```

chrome://new-tab-page says

Congratulations! You guessed it right

> OK

Q3. Prompt the user to enter their full name. Generate a username for them based on the input.

Start username with @, followed by their full name and ending with the fullname length.

eg: user name = "aliahmed" , username should be "@aliahmed8"

```javascript
> let fullName = prompt("Enter your full name:");
  let userName = "@" + fullName + fullName.length;

  alert("Your username is: " + userName);
< undefined
```

chrome://new-tab-page says

Your username is: @AribaShuaib11

OK

Q1. Print all even numbers from 0 to 100.

```javascript
> for (let i = 0; i <= 100; i++) {
    if (i % 2 === 0) {
      console.log(i);
    }
  }
```

0	VM381:3
2	VM381:3
4	VM381:3
6	VM381:3
8	VM381:3
10	VM381:3
12	VM381:3
14	VM381:3
16	VM381:3
18	VM381:3
20	VM381:3
22	VM381:3
24	VM381:3
26	VM381:3
28	VM381:3
30	VM381:3
32	VM381:3
34	VM381:3