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LAB REPORT 4

WEB TECHNOLOGIES

JavaScript Fundamentals & DOM Manipulation



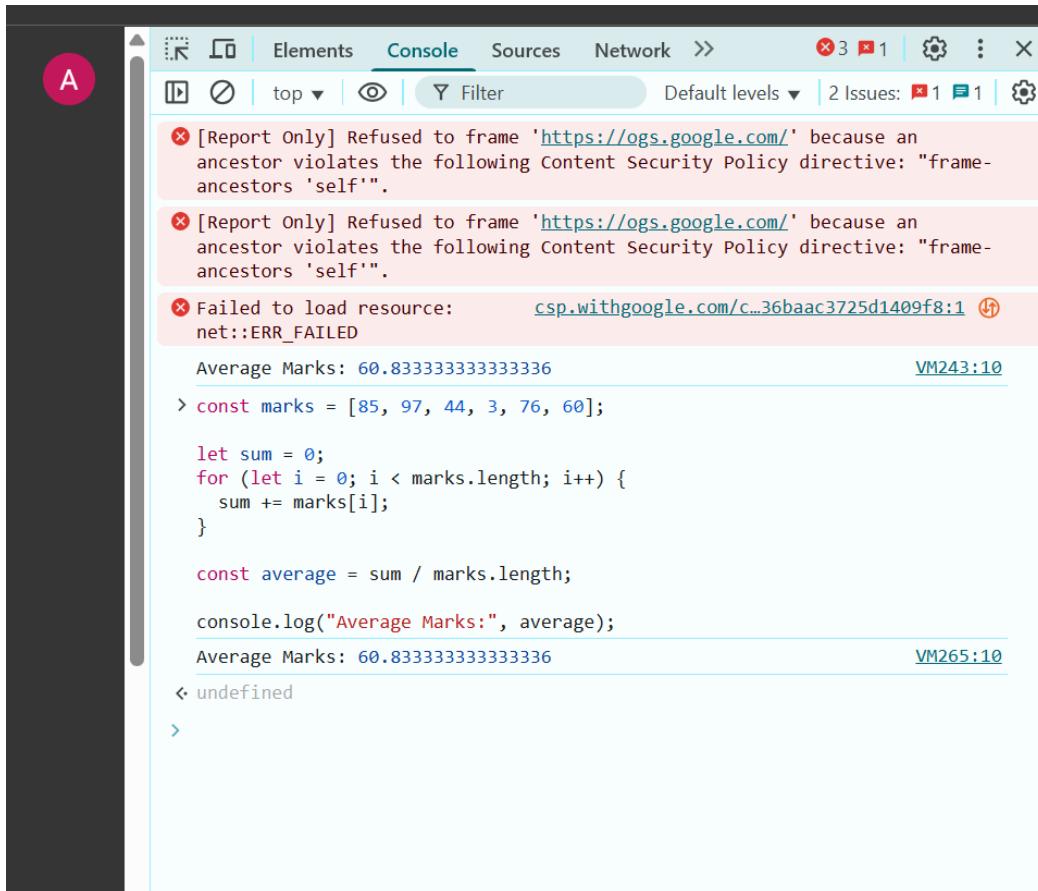
Institute of Space and Technology

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.



The screenshot shows a browser's developer tools with the 'Console' tab selected. A pink circle with the letter 'A' is positioned in the top-left corner of the console area. The console output is as follows:

```
< [Report Only] Refused to frame 'https://ogs.google.com/' because an ancestor violates the following Content Security Policy directive: "frame-ancestors 'self'".  
✖ [Report Only] Refused to frame 'https://ogs.google.com/' because an ancestor violates the following Content Security Policy directive: "frame-ancestors 'self'".  
✖ Failed to load resource: csp.withgoogle.com/c...36baac3725d1409f8:1 (ERR_FAILED)  
Average Marks: 60.83333333333336 VM243:10  
> const marks = [85, 97, 44, 37, 76, 60];  
  
let sum = 0;  
for (let i = 0; i < marks.length; i++) {  
    sum += marks[i];  
}  
  
const average = sum / marks.length;  
  
console.log("Average Marks:", average);  
Average Marks: 60.83333333333336 VM265:10  
< undefined  
>
```

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

- Remove the first company from the array
- Remove Uber & Add Ola in its place
- 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);

```

```

▼ (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.

```
> 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”

```
> 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.

```
> 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
```