

Fascoon - Doubt Solving Session - 4th September 2021 - May Batch

Note: We will start the session @4

Attendance for the Session:

- Andy
 - Naresh
 - Poonam
 - Rushi
 - Vinay
 - Mohsin
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Didnt attend today:

- Suresh Yadav
 - Amit
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Module Completion

1. HTML Basics - **DONE**
 2. CSS Basics - **DONE**
 3. Bootstrap CSS Framework - **IN PROGRESS**
 4. Javascript Basics - **DONE**
 5. Javascript Advanced - **IN PROGRESS**
 6. Github - **DONE**
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Doubts OR Queries

Q.1.[Poonam] Constructor this keyword?

- If you want to implement this keyword, always do it using javascript classes.
 - Implementing this keyword in normal objects or normal variables is not recommended.
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```
// class Person
```

```
let country = 'India'
const name = 'Amit'
class Person{
  constructor(firstName,lastName){
    console.log('I am a constructor')
    this.firstName = 'Atul'
    this.lastName = 'Sharma'
  }
  displayInfo(){
    console.log(this.firstName)
    console.log(this.lastName)
  }
}

// object or instance of class person
p1 = new Person()
p1.displayInfo()
console.log(country)
```

Q.2.[Amit] Mini Revision of Topics Completed?

- Let's create a small web app, which will display news dynamically.
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Q.3.[Naresh] Difference between let and const?

- The value of a const doesn't change.
 - The value of a let variable can change.
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Q.4.[Suresh] Difference between Re-declaration and Re-initialization??

- **var** keyword - can be re-initialized, or value can be updated from inside and outside the scope.
 - **let** keyword - can be re-initialized, or value can be updated only from inside the block scope.
 - **const** keyword - once initialized it cannot be re-initialized.
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Q.5.[Poonam] Terminal Operations??

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- **Save the list of commands in a notepad**
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- **Creating a Folder**
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```
$ mkdir <folder-name>
```

- **Go inside the Folder**
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```
$ cd <folder-name>
```

- **Go Back**
-

```
$ cd ..
```

- **Clear Terminal**
-

```
$ clear
```

Q.6.[Vinay] What is the use of Return in a Function?

Ans:

1. return keyword is used to return back to the main program the calculated value or output.
 2. return value is supposed to saved in a new variable when calling the function.
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```
calcNewSalary(){
```

```
    const newSalary = this.salary + this.increment
    return newSalary
  }
const newSalary = emp1.calcNewSalary()
console.log('New Salary after Hike:', newSalary)
```

Q.7[Poonam] Two functions were used in to fetch news and display the newsdata?? How and why these functions were used??

Ans:

1. Use of nested function calling.
 2. getNewsData() function is just fetching the news, and storing the data in a variable → news_data.
 3. fetchNews() function is calling the getnewsData() function, which is called a nested function call i.e → calling a function from inside a function.
 4. Once you call fetchNews() function, it will call getNewsData() function
 5. getNewsData() will update the value of variable → news_data.
 6. This news_data variable will be then given to the HTML View.
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Notes:

1. **var** keyword is accessible inside and outside the block scope.
 2. **let** keyword is accessible only inside the block scope.
 3. Anything **let** and **const** declared inside the block scope cannot be accessed from outside the block scope.
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Practice with Dynamic Data using the following Free APIS

- <https://randomuser.me/api/>
 - <https://newsapi.org>
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- Javascript Advanced - **IN PROGRESS**
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- Advanced Javascript Topics:
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- Classes
 - Objects → JSON Object , Javascript Object , JSON Array, **Object Array**
 - Arrays
 - Functions
 - Local Storage
 - Session Storage
-

Questions:

Q.1[Poonam] What is fetch API , how to get the Data? The Process of API??

Ans:

- What is an API???
 - API stands for application programming interface.
- When computers were introduced as a phone, tablet, people started visiting softwares on their smartphones.
- These smartphones did not have access to the same features as the computer back then.
- API creates a common platform, for data to be accessed on all type of computing devices like:
 - Laptop
 - Smartphone
 - Smart TV
 - Radio
 - Washing Machine which runs on voice assistant
 - Smart Devices like Smart Speaker etc etc etc
- Two popular types of API's are:
 - XML
 - JSON
- What does an API do??
- An API creates and endpoint to access the data in your database.
- Previously, databases were different for applications and websites.

- Now we use the same database for your website and mobile application as well.
 - However, the database if written for Web, cannot be accessed on the mobile.
 - Which is why we use API endpoints.
 - APIs need to be designed.
 - Popular technologies to design APIs:
 - Node.js
 - Laravel
 - Express
 - Hence, API is just a technology which gives an access point to access the data of a database.
 - Popular free APIs for learning software development:
 - News API
 - Random User API
 - Stock Market API etc etc etc
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- **Javascript Mini App:** Display Random user data using Random User API
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Q.2[Vinay][General] Not Understanding Javascript works???

Ans:

1. Javascript is just a tool, a programming language.
 2. There are two programming languages:
 - Application Programming languages.
 - Examples:
 - Flutter
 - Javascript
 - PHP
 - Python
 - System Programming languages.
 - Examples:
 - Python
 - C++
 - Rust
 3. Programming languages are used to create your end product.
 - End Product examples:
 - E-commerce website
 - Blog
 - Social Media website
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To create a simple recipe book using javascript.

- HTML → Structure of the Application
 - CSS → Design of the Application
 - Javascript → Behavior of the Application
 - Database → NOSQL, MYSQL, Firebase etc etc
 - To store your recipes
 - Storage can be done using tables or collections
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