Javascript

Many lives of Javascript.....





Why javascript is important for LWC

8 ECMAScript standards to learn before building Lightning Web Components

- 1. Decorators
- 2. DispatchEvent and CustomEvent
- 3. QuerySelectors
- 4. Import/Export
- 5. Spread Notation
- 6. Slots
- 7. Promises
- 8. String Interpolation + Let/Const

Demo

Create a sample HTML page

- Console.log
- Variables declaration (const, var, let)
- Data Types
- String concatenation
- Object
- Arrays
- Functions
- ES6 spread syntax
- ES6 destructuring
- Classes
- Array Advanced
 - Map function / Filter function

```
// Printing msg in console
  console.log("Welcome to SF Dev Training");
const SFTopics = {
  TopicName: 'APEX Basics',
  TopicCategory: 'APEX'
console.log(typeof SFTopics); // Gives type as object
console.log(typeof JSON.stringify(SFTopics)); // Shows type as string
console.log(`The topic ${SFTopics.TopicName} is categorized under ${SFTopics.TopicCategory}`); // String concatenation with back quote
//Array to hold SFTopics
const SFTopics arr = [];
```

console.log('Method 2 -' + element.TopicName);

SFTopics arr.forEach(element => {

});

```
addTopics("JS","LWC");
function addTopics(name, category)
   console.log(`The topic ${name} has been categorized under ${category}');
addTopics("APEX Trigger","APEX");
const addTopics V2 = function (name, category){
   console.log(`V2 - The topic ${name} has been categorized under ${category}`);
addTopics_V2("APEX Trigger", "APEX");
addTopics V2("JS","LWC");
const addTopics V3 = (name,category) => {
   console.log(`V3 - The topic ${name} has been categorized under ${category}`);
   //Create a object for each topic and move to array
   const SFNewTopic = {
       TopicName: name,
       TopicCategory: category
   SFTopics arr.push(SFNewTopic);
addTopics V3("APEX Trigger", "APEX");
addTopics V3("JS","LWC");
console.log(SFTopics arr)
   //Comparison
```

```
for(let i=0; i < SFTopics arr.length; i++)
    for(let prop in SFTopics arr[i]) // Loop thru each object in the array
        let SFTopic = SFTopics arr[i];
       console.log(`${prop} - ${SFTopic[prop]}`);
 // Loop thru objects within an array and get a new property array returned
const Topicnames = SFTopics arr.map(function(arrayitem){
   return arrayitem.TopicName;
console.log(Topicnames);
```

```
const a = 6;
const b = "6";
console.log(a == b); // normal equals comparison . Return true
console.log(a === b); // Strict comparison . Return false
```

```
// ES6 - spread syntax
// ES6 has lot of useful syntax which simplifies your code
// Say, you want to merge 2 arrays using spread syntax it can be done easily instead of
// looping thru arrays
const SFTopicsAPEX = [
    { TopicName: 'APEX Basics', TopicCategory: "APEX"},
    {TopicName: "APEX Trigger", TopicCategory: "APEX"}
];
const SFTopicsLWC = [
    { TopicName: 'JS', TopicCategory: "LWC"},
    {TopicName: "WEb components", TopicCategory: "LWC"}
];
const totaltopics = [...SFTopicsAPEX, ...SFTopicsLWC];
console.log('Spread Syntax' + totaltopics);
// ES6 - Destructing
// Say, you want to get only topic names from first 2 elements
// instead of looping totalTopics array
const [name,y] = [totaltopics]
console.log(name);
console.log(y);
```

For Further Reading

https://www.javascripttutorial.net/es6/

https://trailhead.salesforce.com/en/content/learn/trails/learn-to-work-with-javascript

https://trailhead.salesforce.com/en/content/learn/modules/modern-javascript-development