MODULES IN JAVASCRIPT

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Modules in JavaScript

- Module is nothing but a file or a script file

- Modules will split code into multiple files

- Types in Modules

  - Import

  - Export

Import & Export

- **Import:**
  - This allows us to import the functionality from other modules.
  - Syntax:
    - Import {functions/variables/classes} from "./location.js";
- **Export:**
  - This allows us to export a particular property from the current module to another module.
  - Syntax:
    - Export functions/variables/classes

Exporting / Importing of Functions

```html
ot > <> module.html
<!doctype html>
<html>
<head>
    <script type="module">
        import {func} from "./my.js"
        func()
    </script>
<head>
<body>
    <p>Hello World</p>
</body>
</html>
```

```js
ot > JS my.js > ...
export function func(){
    return alert("Hello  i am from export concept")
}
```

Exporting / Importing of variables

```
ot > <> module.html
<!doctype html>
<html>
<head>
    <script type="module">
        import {arr,n} from "./my.js"
        alert(arr+"\n"+n)
    </script>
<head>
<body>
    <p>Hello World</p>
</body>
```

```
t > JS my.js > ...
export const arr = [1,2,3,4,5];
export const n = 1234;
```

Importing / Exporting through multiple files

```html
ot > <> eq1.html
<!doctype html>
<html>
<head>
    <script type="module" src="./imp.js">

    </script>
<head>
<body>
    <p>Hello World</p>
</body>
</html>
```

```js
ot > JS imp.js
import {func1,func2} from "./exp.js"
func1("Sai Vardhan");
func2(2408);
```

```js
t > JS exp.js > ...
function func1(name){
    console.log("It is console block"+name);
}
function func2(number){
    console.log("It is alert box  " + number  );
}
export {func1,func2};
```

Renaming Feature in Importing

```html
eq1.html
<!doctype html>
<html>
<head>
    <script type="module" src="./imp.js">
    </script>
<head>
<body>
    <p>Hello World</p>
</body>
</html>
```

```js
imp.js
import {func1 as base1,func2 as base2} from "./exp.js"
base1("Sai Vardhan");
base2(2408);
```

```js
exp.js > ...
function func1(name){
    console.log("It is console block"+name);
}
function func2(number){
    alert("It is alert box  " + number  );
}
export {func1,func2};
```

Renaming Feature in Exporting

```html
eq1.html
<!doctype html>
<html>
<head>
    <script type="module" src="./imp.js">
    </script>
<head>
<body>
    <p>Hello World</p>
</body>
</html>
```

```js
imp.js
import * as newName from "./exp.js"
newName.name("Sai Vardhan");
newName.number(2408);
```

```js
exp.js > ...
function func1(name){
    console.log("It is console block"+name);
}
function func2(number){
    alert("It is alert box  " + number  );
}
export {func1 as name,func2 as number};
```