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JavaScript :

i) Used to create functional and dynamic web pages.

ii) It is an interpreted language.

iii) It's various versions are,

V8 [Google chrome], Chakra [Internet Explorer]

Spidermonkey [Mozilla Firefox]

iv) 2009, Ryan Dahl.

V8 is good in performance and used C++, javascript libraries to make node.js.

Types of functions :

① Named functions.

Eg:

```
function greet () {  
    console.log("Hi");  
}  
  
greet ()
```

② Anonymous (without named)

function () returns with function keyword.

In 2015, js has enhanced with new features

ES6 [Ecma Script 6] contains arrow function, let, constant.

Need for arrow function:

→ For the implementation of callback functions.

→ IIFE → Immediately Invoked Functional Expression.

Eg:

```
function () { } ;
```

 → Created and executed then and there.
(anonymous arrow function)

⇒ In javascript, no need to mention datatypes for parameters in function because it is dynamically assign type.

Types of variables:

- ① var [Used in global scope]
- ② let [Used in local scope]
- ③ const [It is fixed once it is assigned].

Callback functions:

- ① Passing another function name as parameter is known as callback function.
- ② It follows asynchronous programming.

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Variable declaration in javascript:

- ⇒ `var` `alpha` (global variable / scope)
- ⇒ `let` `beta` (local variable / scope, only in block)
- ⇒ `const` `gamma` ("should be defined and used throughout the entire program").
[2015, ES6]

Array Declaration:

① `var products = [1, 2, 3, 4, 5]`

`products.map({ (product, index) })` ⇒ callback function

② `var productDescription = [{ pid: "p801", pName: "pen", price: 5 },
{ pid: "p802", pName: "pencil", price: 3 },
{ pid: "p803", pName: "rubber", price: 2 }]`

`console.log(productDescription, price)`

⊗ `setTimeout`, `setInterval`,
`clearTimeout`, `clearInterval`.

`console.log(--filename)` [including filename]

`console.log(--dirname)` [including filename]