

①

operat, DBMS, Data, Prog

Season - S — Don't

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Season - 13th Aug 2022

Today

While loop

Do while loop

for loop

Switch

While loop (True or False) \Rightarrow pre condition

While (true)

```
{ console.log ("Hello");  
}
```

✓ check first
✓ execution

\Rightarrow Infinite loop

\Rightarrow let $y=7$;
while ($y \leq 5$)

```
{
```

console.log ("Hello");

$y++$;

```
}
```

output \Rightarrow "No"

do-while \Rightarrow Post condition \rightarrow execute block

let $y=7$;

```
do {
```

console.log ("Hello");

$y++$

```
}
```

while ($y \leq 5$)

output = Hello

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for loop

```
let y = 1; // initialization
while (y <= 5) // condition
{
  console.log("Hello", +y);
  y++; // increment / decrement
}
```

```
init; cond; inc
for (let i = 1; i <= 5; i++)
{
  console.log("Hello" + i);
}
```

⇒ Why use while, for, do-while?

Switch

continue: skip the day offer next day

break: stop the loop, jump out the loop
training: cancel, next day yes

default:

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Nested loop

```
for (let i=1; i<=4; i++)  
{  
  for (let j=1; j<=5; j++)  
  {  
    console.log(j);  
  }  
  console.log("the end");  
}
```

Real time used:

Switch case:

```
let day = "Wed";  
if (switch(day)  
{  
  case "sat":  
  case "sun":  
    console.log("bam");  
  case "mon": break;  
  case "tue":  
  case "thurs":  
    console.log("gam");  
    break;  
  case "wed":  
    console.log("bam");  
    break;  
  default:  
    console.log("keep dream");  
})
```

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JavaScript built in 14-15 days.

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Functions

- ✓ procedures - C language
- ✓ function - Java language
- ✓ objects

first function are first-class citizens.

DRY - Don't Repeat Yourself

- Don't write code duplicate because crime, criminal.

Keyword

```
function doSomething ()           // defining
{
    // let name = "Navin";
    // console.log(name);
    //
    //
}
```

doSomething() // calling

⇒ What is function?

It is a block of statement which you can execute just by calling them are called function.

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Note

- You are only define no output because calling is output.
- you are calling multiple-times.
- you are first call & after execute are known as Hoisting
- Function name also write verbal types.
- call the function is most important.

function add()

```
{  
  let num1 = 8;  
  let num2 = 6;  
  log.console(num1 + num2);  
}
```

add();

Doubt

Pass value

let num1 = 8;

let num2 = 6;

let num3 = 9;

function add(n1, n2, n3 = 0)

```
{  
  console.log(n1 + n2 + n3)  
}
```

add(num1, num2)

// add(8, 6)

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Return (1)

let num1 = 8;

let num2 = 6;

let num3 = 9;

function add (n1, n2, n3 = 0)

{

return n1 + n2 + n3;

}

let result = add (num1, num2);

console.log (result);

Object - Real life problem ← why?

Object is very very important because every seen behind work like an object.

→ definition Object will have values properties basically a key and a value pair example.

There are two types object ex

Mutable object →

A mutable object which means is an object whose state can be modified after created

Immutable object →

Immutable object which means whose state cannot be changed once object is created.

String & Number is Immutable.

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① Way — Key: Value

create object

key: values

```
let book = {  
  "title": "javascript",  
  "author": "John",  
  "year": 2018,  
  "num-copies": 1000  
}
```

// only title

// All value

```
console.log(book.title);  
console.log(book);
```

First name & Last

```
"Author": {  
  "first Name": "John",  
  "last name": "Doe"  
},
```

```
console.log(book.author);
```

② - Way

New-operator

```
let book = new Object();  
book.title = "Harry Potter";  
book.author = "JK Rowling";  
book.pages = 400;  
book.publisher = "Bloomsbury";  
book.year = 1997;
```

console.log(book);

console.log(book.page);

// all

// only-one

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Modify

```
book.pages = 600;  
book.author = "Navin Paddy";  
console.log(book.author);
```

Another way
Modify

```
book["author"] = "Sangeevan";  
console.log(book.author);
```

Note

- Object create a upper case.

3rd Way

create - function

Don't Worry
Code

```
let obj1 = Object.create({x:1, y:2});  
let o2 = obj1.x + obj1.y;  
console.log(o2);
```

⇒ Car Example

```
const myCar = new Object();  
myCar.company = "BMW";  
myCar.Model = "X5";  
myCar.year = 2019;  
myCar.color = "black";  
myCar.price = 20,000;  
myCar.fuel = "petrol";  
console.log(myCar);
```


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⇒ create of object Student
name, age, year passing out, mark
age

⇒ console.log ('Student: ', student, education)

temperature programme