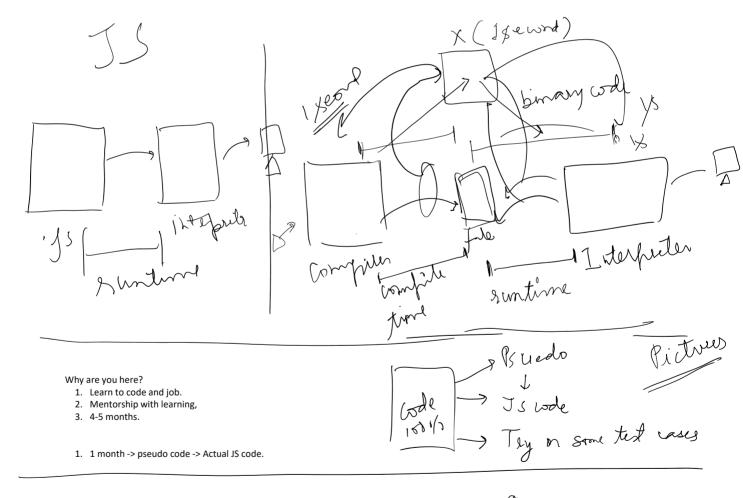


Time complexity for interpreter to interpreting n lines of code is $O(n) \Rightarrow$ linear time. Time complexity for compiler to compiling n lines of code is $O(1) \Rightarrow$ constant



Javascript.

Variables.

- Every variable name should be start from Alphabets(lower case, upper case), underscore(_), dollar(\$).
- Javascript is a Case-sensitive language and we have to take care of it while defining variables.

Print.

Console.log()



denning variables.

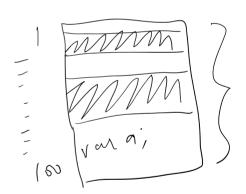
Console.log()

09-08-2022 Basics.

09 August 2022 20:42

Attendance link:- https://docs.google.com/forms/d/e/1FAIpQLScIeXy95A54S3ggvhdozwklURXPUIAREfi6 2cgrVZWJZAblw/viewform?usp=sf link

- 1. Keyword:- Some reserved words. e.g var, let, const, function, true, false etc.
- 2. Declaration/Declare:- To define.
- 3. Initialisation/Initiailse:- assigning the value.
- 4. Scope:- Area that is covered.
 - a. Global scope
 - b. Function scope
 - c. Block Scope:-



Block:- blocks are in {}.

Variables:-

Naming conventions:-

- 1. We can't use keywords.
- 2. Start from alphabets(lower and upper case), _ , \$.
- 3. Case sensitive. Xyz and xyz and xyZ are different.
- 4. e.gs:-aman, Aman, _aman, _123, \$aman

1) Arkash ii) Arkash iii) Arkash

Comments:-

- 1. // to comment a line.
- 2. /* */ to comment a multiple lines.

Jen ym

Data types:-

Primitive:-

Data types:-

Primitive:-

- 1. Number:- Intergers, Decimals
- 2. String:- Words, Sentences.
 - i. You must have to use either "" or " to define a string.
 - ii. When you have to define a paragraph(multiple lines), we must have to use `` in that case.

2 balls -> BR, RB 0 balls -> 1

- 3. Boolean:- true/false.
- 4. Null:- intentional empty value.
- 5. Object:- {},
 - i. It must be wrap in {}
 - ii. The data looks like Key:Value pair separated by commas.
 - iii. Keys are already in string form, its predefined.
 - iv. Example:- var first_last_name_object = {
 "aman": "Dokania",
 "mohit" : "Chopra",
 "xyz": "uip"
 }
 - v. For getting every keys:- Object.keys(object variable name);
 - vi. For getting every values:- Object.values(object variable name);
- 6. Undefined:- un-intentional empty value.

Non-primitive:-

- 1. Start from undefined, diff b/w undefined and null.
- 2. Var, let, const

10-08-2022 variables scopes, undefined

10 August 2022 18:49

1. A+E Group -

https://docs.google.com/forms/d/e/1FAlpQLSdMhEwu8hioMRlEyX8dP40vXNnr3Q7gu-1427Uf3bPql5CcA/viewform?usp=sf_link

https://replit.com/teams/join/zdemnyjdgswcjsdjrearuzchzosijobw-ac102-batch

Keyword can be used for JS rules.

JS Rule 1:- How to declare a variable?

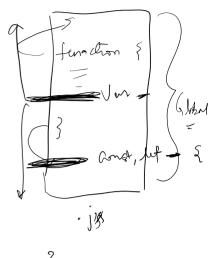
Ans:- var/let/const <variable_name>;

Why Function? Why Variable?

Keyword use to declare Variables:-

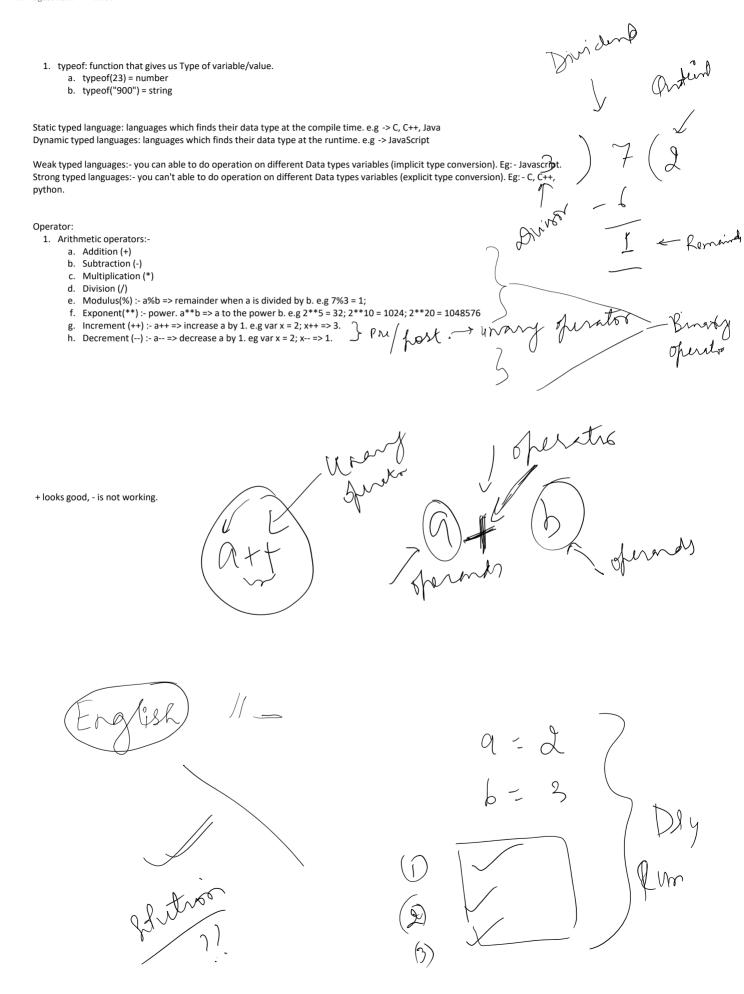
- i. var:
 - a. It has Global or functional scope.
 - b. We can re-declare the variables.
 - c. We can re-assign/update/re-initialise the variable value.
 - d. If we use var variable before declaring, it gives us the value "undefined".
- ii. le
 - a. It has a block scope.
 - b. We cannot re-declare it.
 - c. We can re-assign/update/re-initialise the variable value.
- iii. const:
 - a. It has a block scope.
 - b. We cannot re-declare it.
 - c. We cannot change the variable value.

1. Object.



11-08-2022 typeof, strong weak, static dynamic, operators, basic class ques.

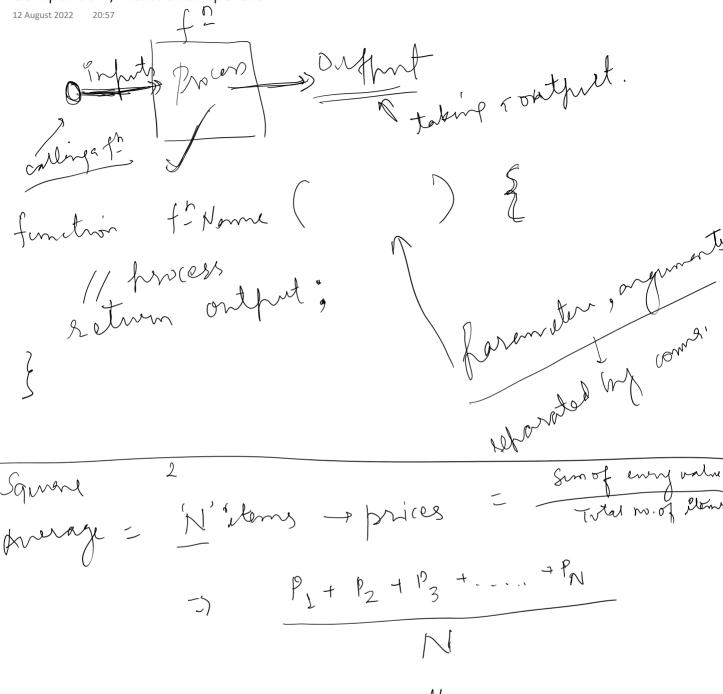
11 August 2022 21:01



12 m

(2) (2)

12-08-2022 Replit, function, use of `, Assignment operator, Comparison / Relational operator



Slep 1: calculate the sum of all.

J: climate it by total count.

3: siturn on april.

Assignment operators:- operators those are used to assign a value to a variable. LHS <- RHS

i. =: e.g a = 2 + 5;

$$a = b - a$$

$$a = -b$$

$$a = b$$

variable. LHS <- RHS

i. = : e.g a = 2 + 5;

ii. += :- a += b => a = a + b;

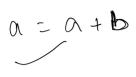
iii. -=: a -= b => a = a - b;

iv. *=: a *= b => a = a * b;

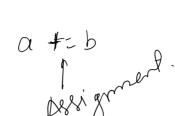
v. /=: a /= b => a = a / b;

vi. %=: a %= b => a = a % b;

vii. **= : a **= b => a = a ** b:









Comparison / Relational operator:- these operators are going to check or compare the two things. Return Boolean (True/False)(1/0)

i. == : this will check, two things are equal by value.

(1/0) ii. ===: this will check, two things are equal by value and also in data type.

iii. '>': greater than

iv. < : less than

v. >= : greater than or equal to

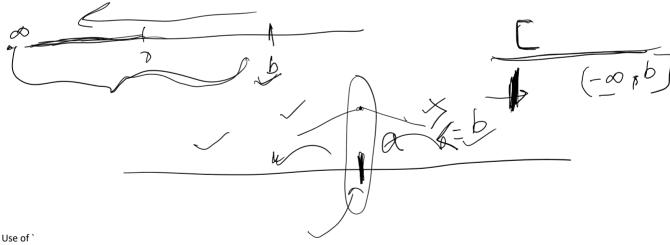
vi. <= : less than or equal to.

vii. != : not equal to by value.

viii. !== : not equal to by value and data type.

ix. ?: Ternary operator,

a. <comparator/logical statement>? " return if true ": " return if false";



1. For writing the multiple lines.

2. For using variables in the string.

a. `\${name} is my name.`

15-08-2022 ?, logical operators, Numbers (floating point, 0.1 + 0.2). toString, toFixed, toPrecision. Number(), parseInt, parseFloat, abs, ceil, floor, round, max, min, pow, random, sqrt, cbrt

15 August 2022 18:59

Logical Operators: these operators always work on binary (0/1) (true/false)

i) NOT (!) -> inverts the input.

Input	Output
1	0
0	1

ii) AND(&&) -> (for learning, it works as multiplication)

Input1	Input2	Output
0	0	0
0	1	0
1	0	0
1	1	1

31×1

John Doffelse

of false

fully

fille

of false

fully

fille

of false

of

iii) OR (||) ->

(for learning, it works as Addition)

Input1	Input2	Output
0	0	0
0	1	1
1	0	1
1	1	1

Winders

why floating

front error

front in JS.

Biony system

Base 2

1 - 1.0

- 10:5

- 1. toString() => changing the given value into string. e.g var a = true; a = a.toString();
- 2. toFixed() => return a string, with the number written with a specified number of decimals.
 - a. 9.789.toFixed(2) => 9.79
 - b. 9.789.toFixed(0) => 10
 - c. 9.789.toFixed(4) => 9.7890
- 3. toPrecision() => it basically returns the exact number of digits that you want.
 - a. 9.7898.toPrecision(2) => 9.8

Math.PI

1. abs :- it returns absolute value. e.g it return the positive part of the negative values. abs(-2) = 2.

2. ceil: -9.4 -> 10

3. floor:-9.8->9

4. round :- 9.8 -> 10, 9.4 -> 9

5. max:- max(a1,a2,a3,a4)

6. min:- min(a1,a2,a3,a4)

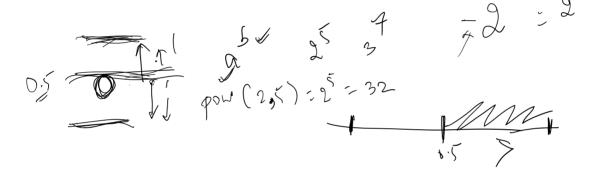
7. pow:- pow(a, b)

8. random:- it is returning any random value between 0 and 1.

9. sqrt:- square root

10. cbrt: cube root.

month de rate



 $\begin{bmatrix}
6,7
\end{bmatrix} = \underbrace{Math.vem.dvm()} + 6$ $\begin{bmatrix}
0,7
\end{bmatrix} + 6 \Rightarrow \begin{bmatrix}
6,7
\end{bmatrix}$

0.5

19-08-2022 String String(true) = "true" Props: 1. length => it gives length of the string. Methods:-

A=5B=9

Method

functionable

B=A+B//9+5=14

B=A-B//14-9=5

A=A-B//14-5=9

Anticular Inj

Staing ()

Staing ()

Class constanctor from

from

from

2 1/3

2 3

2 3

5 4

[0, lm-1]

c arr [1] = 3

str = aerdantins str = 3,7-3

Non-negative numbers => positive number including 0, positive numbers

Non-positive numbers=> negative number including 0, Negative numbers.

Increasing, non-increasing, decreasing, non-decreasing.

all



```
var str = String(2477777444);
// console.log(str, typeof(str));
// console.log(str.length);
// console.log(str[0], str[1], str[2], str[3]);
// var firstDigit = Number(str[0]) // str.at(0);
// var secondDigit = Number(str[1]) // str.at(0);
// console.log(firstDigit + secondDigit);
// at method. -> we can also put negative indexes.
// narams:- index
// console.log(str.at(3));
// charAt method -> positive indexes.
// params:- index
// console.log(str.charAt(-1));
// concat means merge forwardly. 2 + 4 = 24.
// params:- strings separated by ,
// console.log(str.concat("89", "98"))
// indexOf method => the index of the first occurence of char. otherwise -1.
// params:- param1 => value that you are looking for.
// param2 = Index from which searching is going to be start.
// return first index (number) or -1.
// default value of this param2 is 0.
str = "abbabb";
// console.log(str.indexOf('a', 4));
// lastIndexOf
// params:- param1 => value that you are looking for.
// param2 = Index from which searching is going to be start.
// default value of this param2 is 0.
// return last index (number) or -1.
// console.log(str.lastIndexOf('a'));
str = "air campus is here";
// includes method
// params:- param1 => value that you are looking for.
// param2 = Index from which searching is going to be start.
// default value of this param2 is 0.
// return boolean
// console.log(str.includes("abbb", 4));
// toLowerCase -> change string into lower case
// toUpperCase -> change string into upper case
// substring -> return the sub string
// param 1 => starting index of substring
// param 2 => ending index of substr, default value is length of string.
// console.log(str.substring(2,4))
// slice -> extracts a section of a string and returns a new string.
// console.log(str.slice(1, 3));
// console.log(str);
// split -> method takes a separator and returns an array of the substrings
// separated by that given separator.
// param1 => Separator.
// param2 => limit of the substring that you want to be returned
// it should be a non-negative number.
// str = "air campus is here";
```

distanting

2 3 4 = 7

at, longe of valid

indines = [- lingth, lingth -1];

Regard = Regular

Enfusion

A diette word

Tegen = [a-z][a-z][a-z][a-z]

// console.log(str.split(", 90));

```
// startsWith => Is String starts from the passed substring or not.
// returns boolean.
// str = "air campus is here"
// console.log(str.startsWith("cam"))

// endsWith => Is String ends with the passed substring or not.
// returns boolean.
// str = "air campus is here"
// console.log(str.endsWith("e"))

// trim
// trimStart
// trimEnd
```

20-08-2022 Conditional statements.

20 August 2022 21:18

3. default is not necessary



- 1. Break;
- 2. default

Pallindrome -> something that is equal when you read it from any side

121

121

amma amma 20 August 2022 21:37

HOW TO TAKE INPUT FROM USER. loop