**Training**

**03/01/2025**

Git and git-hub

Git is version control used to track a code.

Easy and simple to learn

Git-hub

Is used to store and manage code

1. Install git-bash
2. Install vs-code

**Or**

Command-prompt

**Or**

Git-bash

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**04/01/2025**

**Steps for git configuration:**

**Step1:** create a git-hub account

**Step2:** created repo in a -hub

**Step3:** open vs code and open terminal in vs-code

**Step4:** init git in a local repo

git config --global user.name ” ”

git config --global user.email “ ”

**Step5:**

**Step6:** add remote/cloud repo to local repo

git remote add origin http-path

**Step7:** git pull origin branch-name(main)

**Step8:** convert untracked file to tracked files

git add .

git commit -m “message”

**Step9:** check status

git status

**Step10:** push to cloud repo

git push -u origin master

git remote remove origin http-path

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**05/01/2025**

**What is JavaScript?**

It is a object based programming language used to convert static page into dynamic page.

**Primitive Data Types:**

* Number
* String
* Boolean
* Undefined
* Null
* Bigint

**Non-Primitive Data Types:**

* Class
* Object
* Functions
* Array
* Map
* Set

**3-types Variables**

* var - is a global scope
* let
* const

**06/01/2025**

* Header part is invisible for end user

What is datatypes?

-datatypes is used to define what kind of data used in the variable.

Type of datatypes:-

1. Primitive data types :-

* it can store single values.
* Immutable
* primitive datatypes are:-
* String
* Boolean
* Number
* Undefined
* Null
* Bigint
* symbol

1. Non-Primitive data types :-

* it can store multiple datatypes
* mutable
* Class
* Object
* Functions
* Array
* Map
* Set

1. F
2. Boolean :- true / false.
3. Number :- integers , float, decimal, exponential etc….

2^53-1 to 2^53-1

Ex:- let

1. Undefined:- variable is declared but not initialized with value

Ex:- let

Comment in js:-

1. Single line comment (//)
2. Multi line comment (/\*/)

**07-01-2025**

1. String :- sequence of characters stored within double quotes / single quotes/ backticks(templateliterals ``)

ex: var username = "Mahesh Babu";

let title = 'super start';

char networth = `120cr`;

typeof(); method used to define the type of data

2. Boolean :- true / false.

Re-declaration is not allowed.

3. number:- integers, float, decimal, exponential etx...

-2^53-1 to +2^53-1 bigInt range

ex: let num = 10;

let num2 = 12.233;

let num3 = 10e4;

4. undefined:- variable is declared but value is not defining/initialised.

let a;

console.log(a);

5. null :- null is a abscence of object / empty space

but the datatype of null is still an object (bug)

what is the return type of null ? A: object

Operators:

- operators are special symbols which used to perform operation on operands.

ex:- 2(Operand1) + 2(operand2)

1. Unary operator

2. Binary

3. Ternary (operanation ? statement1 : statement2);

1.1 Arithmatic :- Which performs oeprations such as

- Additon (concatenation)

- Subtraction

- multiplication

- Division

- modulus

- exponential

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1.2 Assignment

1.3 Relational

1.4 Logical

**08-01-2025**

1\*2 =2

1\*2\*3=6

1\*2\*3\*4=24

1\*2\*3\*4\*5=120