02

Data Types and Variables

WHAT YOU WILL LEARN

* JavaScript Comments
* Weakly and Dynamic Typed Programming Language
* JS Predefined Object console
* Variable with Datatypes and Auto Casting

Java Script Comments

* JavaScript comments can be used to explain JavaScript code. It is not executed

1. Single Line // - Any text between // and the end of the line will be ignored by JavaScript (will not be executed).
   * 1. Example - let x = 5;      // Declare x, give it the value of 5
2. Multi-line Comments   
   Any text between /\* and \*/ will be ignored by JavaScript.

/\*  
The code below will change \*/

Weakly and Dynamic Typed Programming Language

* Weakly Typed: weakly type language , means you have to specify type of the variable
  + - Example – c,cpp,c#,vb.net, java etc..
* Dynamic Typed : dynamic type language, means you don't need to specify type of the variable because it is dynamically used by JavaScript engine.
  + - Example – JavaScript , python

JS Predefined Object console

Console is predefined object of JavaScript

* error() - Outputs an error message to the console
  + - example - console.error("You made a mistake");
* info() Outputs an informational message to the console
  + - example - console.info("Hello world!");
* log() Outputs a message to the console
  + - console.log("Hello world!");
* table() Displays tabular data as a table
  + - Example - console.table(["Audi", "Volvo", "Ford"]);
    - console.table({firstname:"John", lastname:"Doe"});

Variable with Datatypes

* **Variable** A JavaScript variable is simply a name of storage location.

**Variable Rules while declaring a JavaScript**

* Name must start with a letter (a to z or A to Z), underscore (\_ ), or dollar( $ ) sign.
* After first letter we can use digits (0 to 9), for example value1.
* JavaScript variables are case sensitive, for example x and X are different variables
* **Data Types** - JavaScript provides different data types to hold different types of values. There are two types of data types in JavaScript.

1. Primitive data type - There are five types of primitive data types in JavaScript. They are as follows:

Graphical user interface, application, table

Description automatically generated

2)non-primitive (reference) data type - The non-primitive data types are as follows:

Graphical user interface, table

Description automatically generated