

M. JASWANTH REDDY
2211CS010329

Give me some idea on what is a Data type. What are Primitive Data types and Non-Primitive Data types. Explain with some examples

Datatypes:-

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

- types of datatypes:-

1. primitive datatype:- it can store single values.

- they are default.

-String , number , Boolean , null ,undefined

2.non-primitive datatype :- it can store multiple values.

- they are user defined.

- functions, arrays , objects

primitive datatype

1. string:- sequence of characters enclosed within double quotes / single quotes / backticks(``).

Ex: let name = "Alice";

2. number :- it stores all the number data types such as integer , float values etc...

Ex: let age = 25;

let temperature = 36.6;

3. boolean :- true/false .

Ex: let isLoggedIn = true;

4. undefined :- any variable declared but not initialized.

Ex: let score; // undefined

5. null :- empty of object.

Ex: let result = null;

non-primitive datatype

1. Objects: A collection of key-value pairs

Ex: let person = { name: "Alice", age: 25 };

2. Arrays: Ordered collections of values (can be of mixed types)

Ex: let colors = ["red", "green", "blue"];

3. Functions: Blocks of reusable code, which can also be assigned to variables

Ex: function greet() { return "Hello!";}