**2. Write a blog about objects and its internal representation in Java script.**

**OBJECTS IN JAVA SCRIPT:**

In JavaScript, **objects are a fundamental data type used to store and organize data**. They consist of key-value pairs, where each key is a string / symbol and each value can be any valid JavaScript data type, including other objects.

**SAMPLE:**

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

**INTERNAL REPRESENTATION IN JAVA SCRIPT:**

* **PROPERTIES AND METHODS:**

**Objects contain properties:**

These are variables associated with the object. Each property has a name (key) and a value.

**Methods are functions:**

Functions inside an object are called methods. They allow the object to perform actions.

* **KEY-VALUE PAIRS:**

**Storage of Data**:

Objects store data using a key-value pair mechanism, providing a way to access values using their keys.

* **OBJECT LITERAL NOTATION:**

**Creating Objects:**

Objects can be created using literal notation, defining properties and values within curly braces {}.

**CODE SAMPLE:**

let person = {

name: "John",

age: 25,

sayHello: function() {

console.log("Hello!");

}

};

* **DOT NOTATION AND BRACKET NOTATION:**

**Accessing Properties:**

Properties and methods can be accessed using dot notation (object.property) or bracket notation (object["property"]).

**CODE SAMPLE:**

console.log(person.name); // Dot notation

console.log(person['age']); // Bracket notation

* **DYNAMIC NATURE:**

**Dynamic Addition/Removal:**

Properties can be dynamically added or removed from objects during runtime.

**CODE SAMPLE:**

person.job = "Developer"; // Adding a property

delete person.age; // Removing a property

* **OBJECT PROTOTYPES:**

**Inheritance**:

Objects can inherit properties and methods from other objects through prototypes, forming a prototype chain.

**CODE SAMPLE:**

let student = Object.create(person);

student.major = "Computer Science";perty

* **OBJECT METHODS:**

**Object Methods:**

Objects have built-in methods for manipulation, such as Object.keys(), Object.values(), and Object.entries().

**CODE SAMPLE:**

let keys = Object.keys(person);

let values = Object.values(person);

let entries = Object.entries(person);

**---THE END--**