variables and data types in JavaScript:

Variables in JavaScript:

let height = 5.9;

Variables are used to store and manipulate data in a program. In JavaScript, you can declare variables using the `var`, `let`, or `const` keywords.

```
#### Example:
```javascript
// Using var (older way, not recommended in modern JavaScript)
var firstName = "John";
var age = 25;
// Using let (used for variables that can be reassigned) let a=20
 let a=10
let lastName = "Doe";
let isStudent = true;
// Using const (used for constants, cannot be reassigned)
const country = "USA";
const pi = 3.14;
Data Types in JavaScript:
JavaScript has several primitive data types and one complex data type. Here are the main data
types:
1. **String:**
 - Represents textual data.
 - Enclosed in single ("), double ("") or backticks (``) quotes.
  ```javascript
 let greeting = "Hello, World!";
 let name = 'Alice';
2. **Number:**
 - Represents numeric data, including integers and floating-point numbers.
 ```javascript
 let age = 30;
```

8. \*\*Symbol:\*\*

- Introduced in ECMAScript 6 (ES6), represents a unique identifier.

```
```javascript
 let uniqueKey = Symbol("key");
### Code Example:
```javascript
// Variables
let firstName = "John";
let age = 25;
// Data Types
let greeting = "Hello, World!";
let height = 5.9;
let isStudent = true;
let undefinedVariable;
let nullValue = null;
let person = {
 firstName: "John",
 lastName: "Doe",
 age: 25
};
let colors = ["red", "green", "blue"];
let uniqueKey = Symbol("key");
```

This example demonstrates the declaration of variables using `let`, and it covers various data types like strings, numbers, booleans, undefined, null, objects, arrays, and symbols. You can copy and paste this code into a JavaScript environment (e.g., a browser console or Node.js) to see how it works.