



Practical Questions

1. Declaring Variables

1. Declare a variable `age` using `let` and assign it the value `25`.
 2. Declare a variable `schoolName` using `const` and assign it `"Greenwood High"`.
 3. Declare an empty array called `studentsList`.
 4. What is the difference between `let`, `const`, and `var` when declaring variables?
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2. Naming Conventions

Which of the following variable names is invalid?

```
let $price = 100;  
let 1stPlace = "John";  
let _score = 89;  
let userName = "Alice";
```

5.

Why is the following variable name incorrect?

```
const #taxRate = 0.16;
```

6.

Rewrite this variable name to follow best practices:

```
let MyvariableNAME = "JavaScript";
```

3. Identifying Data Types

What will be the output of the following?

```
console.log(typeof "Hello");  
console.log(typeof 99);  
console.log(typeof true);  
console.log(typeof undefined);
```

8.

Identify the data types in this array:

```
let data = ["Kenya", 34, false, { country: "USA" }, null];
```

9. How do you define a **BigInt** in JavaScript? Provide an example.

4. Objects & Arrays

11. Create an object `person` with properties `name`, `age`, and `city`.
 12. Add a new property `email` to the `person` object.
 13. Declare an array `fruits` with three fruit names.
 14. Access the second item in the `fruits` array.
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5. Type Coercion

15. What will be the output of the following?

```
console.log("5" + 2);  
console.log("5" - 2);
```

16. Convert the string `"100"` into a number.
17. Convert the number `50` into a string.
18. What will be the result of this operation?

```
console.log(5 + true);
```