

JS Variables Practice Questions

1. Declaring Variables Using `var`

Question:

Write a program to declare a variable using `var` and print its value.

Expected Output:

```
John
```

2. Declaring Variables Using `let`

Question:

Write a program to declare a variable using `let` and modify its value.

Expected Output

```
30
```

3. Constant Variables with `const`

Question:

Try to reassign a value to a constant variable and catch the error.

Expected Output:

```
TypeError: Assignment to constant variable.
```

4. Checking Variable Scope

Question:

Demonstrate the scope difference between `var`, `let`, and `const` inside a block.

Expected Output:

```
10  
ReferenceError: b is not defined  
ReferenceError: c is not defined
```

5. Data Type - Number

Question:

Declare a number variable and perform arithmetic operations like multiplication and division.

Input:

```
let num = 15;
```

Expected Output:

```
30  
5
```

6. Data Type - Boolean

Question:

Check the boolean value of different conditions.

Input:

```
Input numbers should be 10 and 5
```

Expected Output:

```
true  
false
```

7. Data Type - String

Question:

Concatenate two strings and print the result.

Input:

```
let firstName = "John";  
let lastName = "Doe";
```

Expected Output:

```
John Doe
```

8. Data Type - Null

Question:

Assign null to a variable and check its type.

Input:

```
let emptyValue = null;
```

Expected Output:

```
null  
object
```

9. Data Type - Undefined

Question:

Declare a variable without initializing it and check its value and type.

Input:

```
let notDefined;
```

Expected Output:

```
undefined  
undefined
```

10. Variable Hoisting with **var**

Question:

Demonstrate variable hoisting with **var**.

Input:

```
console.log(a);  
var a = 5;
```

Expected Output:

```
undefined
```

JS Variables Assignment Questions

1. what is the output of the below code?

```
let value = 42; // number
value = "Hello"; // now a string
let hello = 'Hello JavaScript!';
let message;
message = hello;
console.log(hello);
console.log(message);
```

2. What is the output for the below code?

```
const a = "javascript";

const b = `Welcome to ${a}`

console.log(a+b)
```

3. Is the below variable declaration is correct, what will the be the output of the code?

```
let $ = 1;
let _ = 2;
console.log($ + _, _ * 300);
```

4. What is the output of the below code?

```
var π;
console.log(π);
```

5. What is the output of the below code?

```
let myNaN = 0 / 0;
console.log(myNaN);
```