JavaScript Chapter 1: Basic Practice Questions

Concept Check Questions

1. What is JavaScript? Where is it used?

2. Is JavaScript compiled or interpreted? Explain in one sentence.

3. What is the difference between let, const, and var?

4. What does it mean that JavaScript is "dynamically typed"?

5. Name any 3 primitive data types in JavaScript.

6. What will the typeof operator return for:

   - typeof "Hello"

   - typeof 42

   - typeof true

   - typeof null

   - typeof undefined

Hands-On Coding Practice

Q1. Declare and Log

Create variables for:

- Your name

- Your age

- Whether you're a student

Print them using console.log()

Q2. Type Checking

Write code to show the data type of:

let a = 100;

let b = "100";

let c = true;

let d = null;

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```
let e;
```

Q3. Reassigning Variables

```
let x = 5;
x = "Now I'm a string!";
console.log(x); // What will this print?
```

Q4. Simple Arithmetic

Write a program to calculate the sum, difference, product, and quotient of two numbers.

Q5. Temperature Converter

Convert Celsius to Fahrenheit using:

$F = (C \times 9/5) + 32$

Q6. Try Changing a const Value

```
const country = "India";
country = "Nepal"; // Try this and see what error appears
```

Bonus Conceptual Exercise

Q7. Guess the Output:

```
let a = "5";
let b = 2;
console.log(a + b);     // ?
console.log(a * b);     // ?
console.log(typeof (a + b)); // ?
```