Theoretical Homework

Review and Summarize:

Write a brief summary of the following topics:

Data Types: What are the different primitive data types in JavaScript?

They are:

1. Number
2. Boolean
3. String
4. Big Int
5. Undefined
6. Null
7. Symbol

Operators: Explain the basic arithmetic operators.

+ = for addition

-= for subtraction

/ = for division

\*= for multiplication

%= for getting remainder

++ = for increment

--= for decrement

\*\* = for exponentiation

Error Handling: What are the common methods for handling errors in JavaScript?

Try catch block

Promises: What are JavaScript promises, and how do then, catch, and finally work?

Async/Await: What is the purpose of async and await in JavaScript?

Conceptual Questions:

What is the difference between null and undefined?

How does the this keyword behave in different contexts?

Practical Homework

Coding Exercises:

Variables and Data Types: Write a JavaScript program that declares variables of different types (string, number, boolean, null, undefined) and prints their types using typeof.

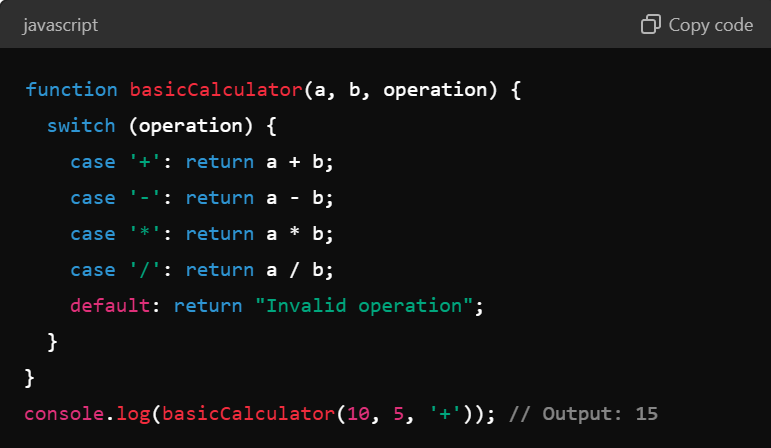
Arithmetic Operators: Create a simple calculator that performs addition, subtraction, multiplication, and division based on user input.

Error Handling: Write a function that simulates a network request using Promise. Use try...catch to handle potential errors in the request.

Promises and Async/Await: Create a function that returns a promise that resolves after a delay. Use async/await to handle this promise and print the result.

Practical Coding Tasks:

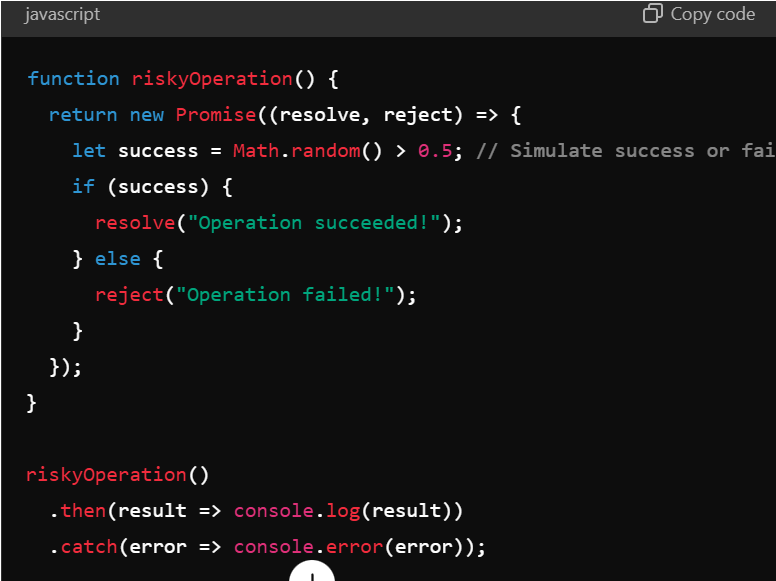
Basic Calculator:



Promise Example:



Error Handling Example:



Tips for Homework:

Practice Regularly: Try to solve the exercises daily to reinforce your learning.

Experiment: Modify the examples to explore different outcomes.

Ask for Help: If you encounter difficulties, feel free to reach out.