



Answersheet

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No. of questions attempted: 12

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Assignment: Watch Your Code Running Line by Line in Dev Tools

Total no. of questions: 12

Total marks: 32

Result: **Not reviewed yet**

Sl. No.	Question	Actions
1	<div><div>This JavaScript file is not working. Please fix it and write what was the problem on this code in the answer box.</div><div>https://github.com/procodrr/28-days-frontend-bootcamp/tree/main/Day%201/01_javascript-file-is-not-working</div><div><!DOCTYPE html> <html lang="en"> <head> <meta charset="UTF-8" /> <meta name="viewport" content="width=device-width, initial-scale=1.0" /> <title>Document</title> <script src="script.js" type="text/js"></script> </head> <body> <h1>Hello World</h1> </body> </html></div></div>	<div>5 marks</div> <div>Marks</div> <div>0</div>
2	<div><div>What does it mean to 'debug' a JavaScript program? And why should we learn to debug our code?</div><div>Debugging means finding and fixing errors (bugs) in your JavaScript code. It allows you to stop the code execution at a specific point and check how the code is running step-by-step. 1. How debugging works: 1. Using breakpoints: You can stop the code execution at a specific line to inspect values. 2. Using console.log(): You can print variable values and check the code flow. 3. Using DevTools: Browser Developer Tools (like Chrome DevTools) let you watch the execution step-by-step. 2. Why you should</div></div>	<div>5 marks</div> <div>Marks</div> <div>0</div>



learn debugging: ☒ To fix errors quickly. ☒ To understand how your code is running. ☒ To optimize and improve your code. ☒ To identify logical and syntax errors.

3

Can you pause a JavaScript program to see what's happening step by step? How?

5 marks

Marks

0

Yes, you can pause a JavaScript program to see what's happening step-by-step by using the debugger statement or setting breakpoints in the browser's DevTools. • How to pause JavaScript execution: 1. Using debugger; statement: • Add debugger; in your JavaScript code where you want to pause execution. • Open the browser DevTools. • When the code reaches debugger;, it will pause, and you can inspect variables, values, and the call stack. 2. Using Breakpoints in DevTools: • Open DevTools → Go to the Sources tab. • Click on the line number where you want to pause execution to set a breakpoint. • When the code runs, it will stop at that point, allowing you to step through it.

4

What is a 'breakpoint' in JavaScript debugging?

5 marks

Marks

0

☒ Breakpoint • A breakpoint is a point in your JavaScript code where you can pause execution during runtime. • You can set breakpoints in the Sources tab of DevTools by opening the script.js file and clicking on the line where you want to stop execution. • When the code reaches that point, execution will pause, allowing you to debug step-by-step. ☒ Debugging • Debugging means finding and fixing errors in your code. • You can also use the debugger keyword directly in your code to pause execution at a specific point. • When the code reaches the debugger statement, execution will stop (just like with a breakpoint).

5

How to does JavaScript code gets exected?

1 mark

Correct answer

1. Sequentially, line by line

2. Randomly, based on browser preferences

3. Simultaneously, across multiple threads

4. Depending on the complexity of the code

1 mark

6

What does the term 'line of execution' mean in JavaScript?

5 marks

Marks



The term "line of execution" refers to the line of JavaScript code that is executed one after another during program execution. When JavaScript code executes, it follows a line-by-line execution, where variables are assigned, functions are called, and statements are executed sequentially.

0

7

What are the two main phases of JavaScript code execution?

1 mark

Correct answer

1. Parsing Phase and Execution Phase

2. Memory Allocation Phase and Execution Phase

3. **Memory Creation Phase and Code Execution Phase**

4. Initialization Phase and Execution Phase

1 mark

8

During the Memory Creation Phase, what happens in JavaScript?

1 mark

Correct answer

1. Variables are assigned values.

2. Functions are executed.

3. **Variables and functions are hoisted and memory is allocated.**

4. Code is parsed and syntax errors are checked.

1 mark

9

During the Code Execution Phase, what happens in JavaScript?

1 mark

Correct answer

1. Variables are assigned undefined.

2. Functions and variables are stored in memory.

3. Syntax errors are checked and resolved.

4. **Code is actually executed and values are assigned to variables.**

1 mark

10

What is the primary purpose of the defer keyword in a script tag?

1 mark

Correct answer

1. To load the script immediately without waiting for the HTML to load.

2. **To delay the script execution until after the HTML document has been parsed.**

3. To execute the script before the HTML document is parsed.

1 mark



4. To defer the execution of the script until all other scripts have been executed.

11

What is the purpose of the debugger keyword in JavaScript?

1 mark

Correct answer

1. To stop the execution of the script and display an alert.

2. To automatically fix errors in the script.

3. To invoke any available debugging functionality, such as setting a breakpoint.

4. To log errors to the console.

1 mark

12

What is the Temporal Dead Zone (TDZ) in JavaScript?

1 mark

Correct answer

1. A period when variables can be declared but not assigned values.

2. The time interval between declaring a variable with let or const and its initialization.

3. A period when functions can be called but variables cannot be accessed.

4. A zone where all variables are assigned null values.

1 mark