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Section: BSCS 403

07 Laboratory Exercise 1
Date: April 10, 2025

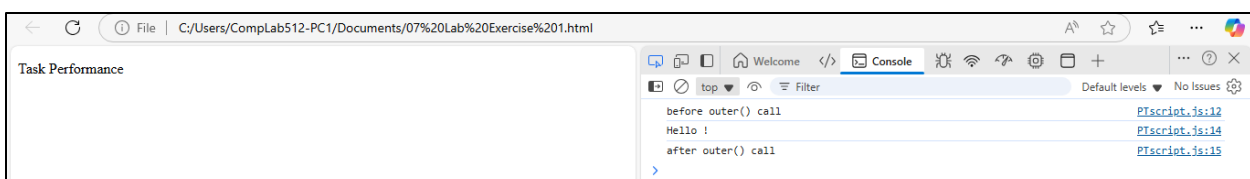
1. Create a simple HTML file. Use PThtml as file name:

```
C: > Users > CompLab512-PC1 > Documents > PThtml.html > html > head > meta
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>07 Laboratory Exercise 1</title>
7      <script src="PTscript.js"></script>
8  </head>
9  <body>
10     <p>Task Performance</p>
11 </body>
12 </html>
```

2. Then, create a JS file. Use the correct file name

```
JS PTscript.js > ...
1  function outer() {
2      let name = "outer";
3      let str = inner();
4      return str;
5  }
6
7  function inner() {
8      let name = "inner";
9      return "Hello Ren!";
10 }
11
12 console.log("before outer() call");
13 console.log(outer());
14 console.log("after outer() call");
```

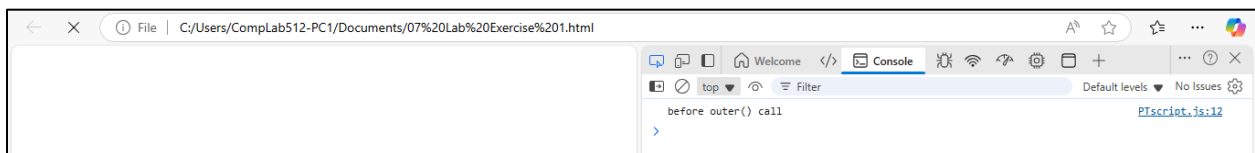
- 3 - 5. Screenshot of the message of the console



6. Write the debugger statement in the control.log block in the PTscript.js, place it before calling the outer() function

```
C: > Users > CompLab512-PC1 > Documents > JS PTscript.js > ...
Search (Ctrl+Shift+F)  outer() {
2      let name = "outer";
3      let str = inner();
4      return str;
5  }
6
7  function inner() {
8      let name = "inner";
9      return "Hello !";
10 }
11
12 console.log("before outer() call");
13 debugger;
14 console.log(outer());
15 console.log("after outer() call");
```

7. Refreshing the browser and explaining the result

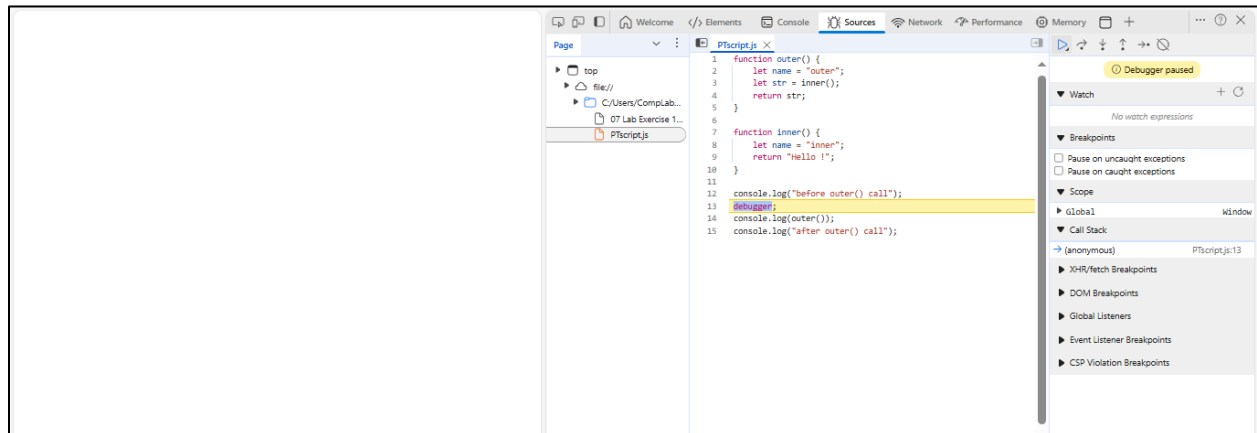


Explanation:

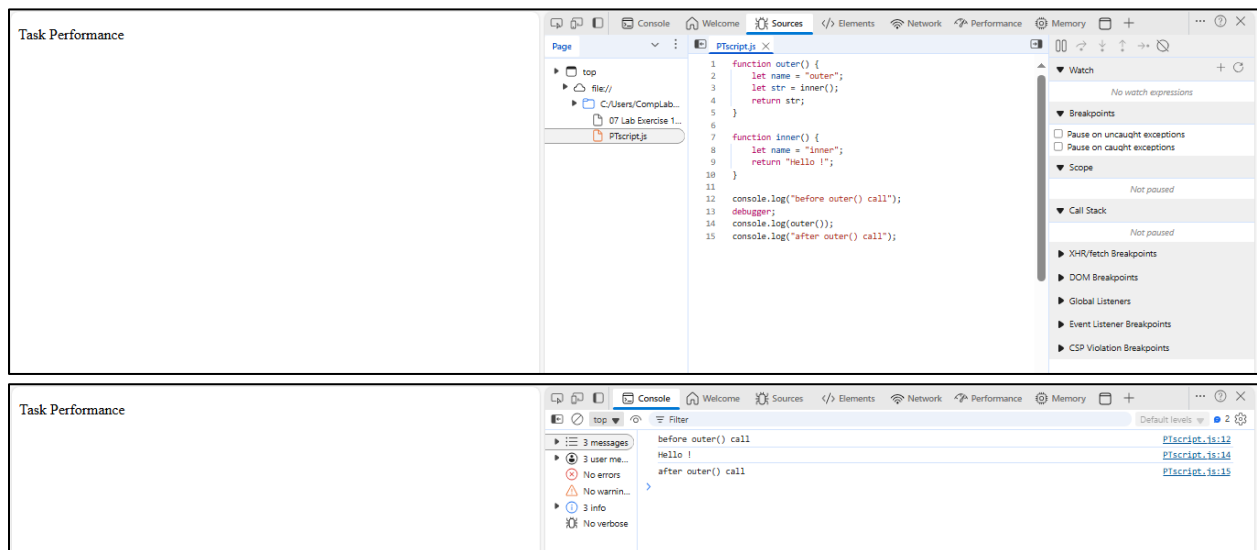
The execution of the JS script was halted by the “debugger” keyword after the first “console.log”. Because of it, the next two console.log was never executed and the paragraph element also did not appear.

8 - 9. Clicking the resume button

Before clicking:

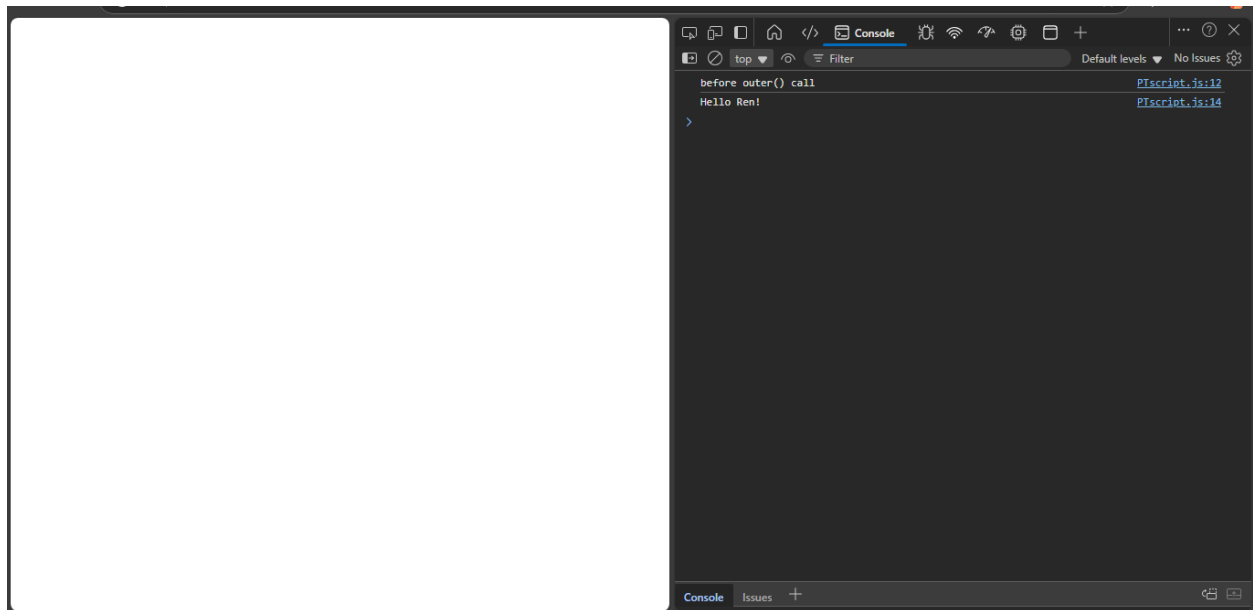
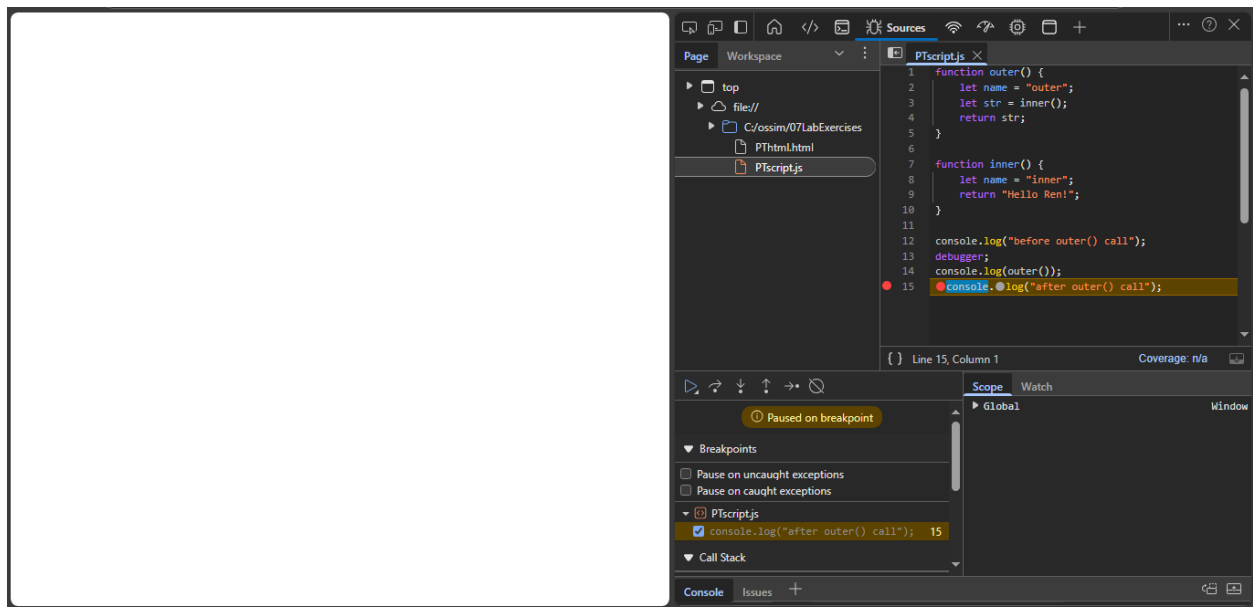


After Clicking:

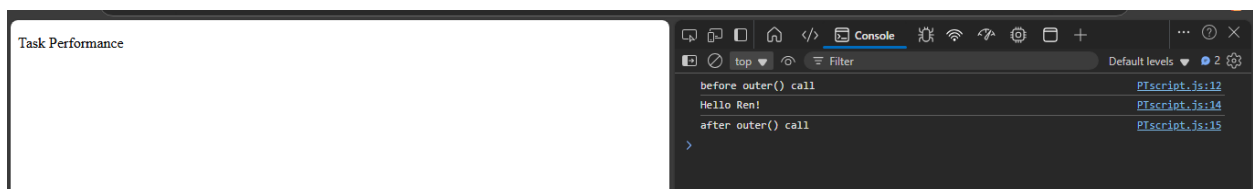


Explanation: After clicking the “resume” (play button) the rest of the halted code was executed, from the next 2 console.log to the paragraph in the HTML body.

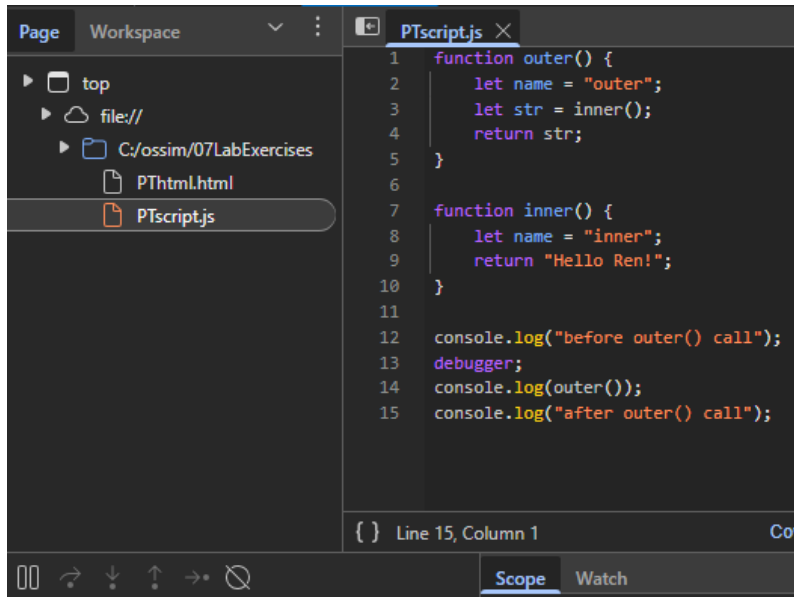
10 – 11. Selecting line 15 as breakpoint



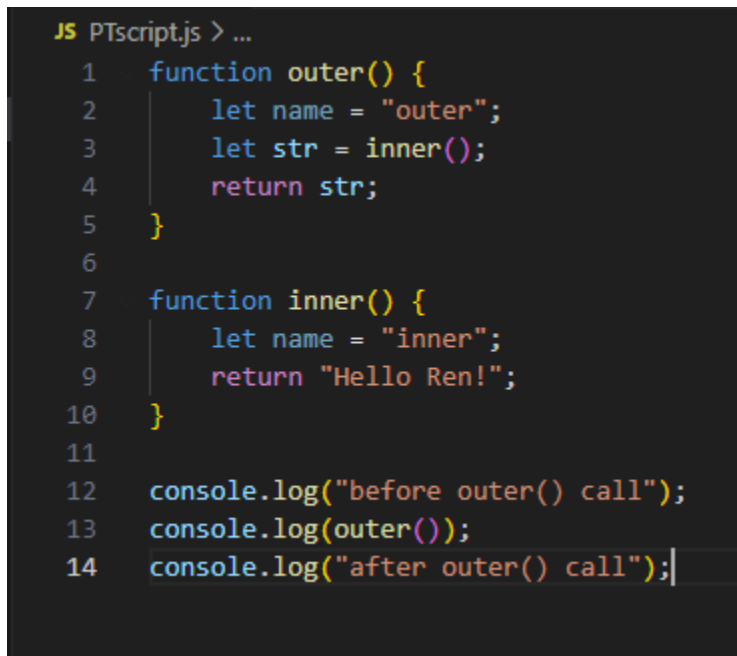
12. Clicking "resume" again



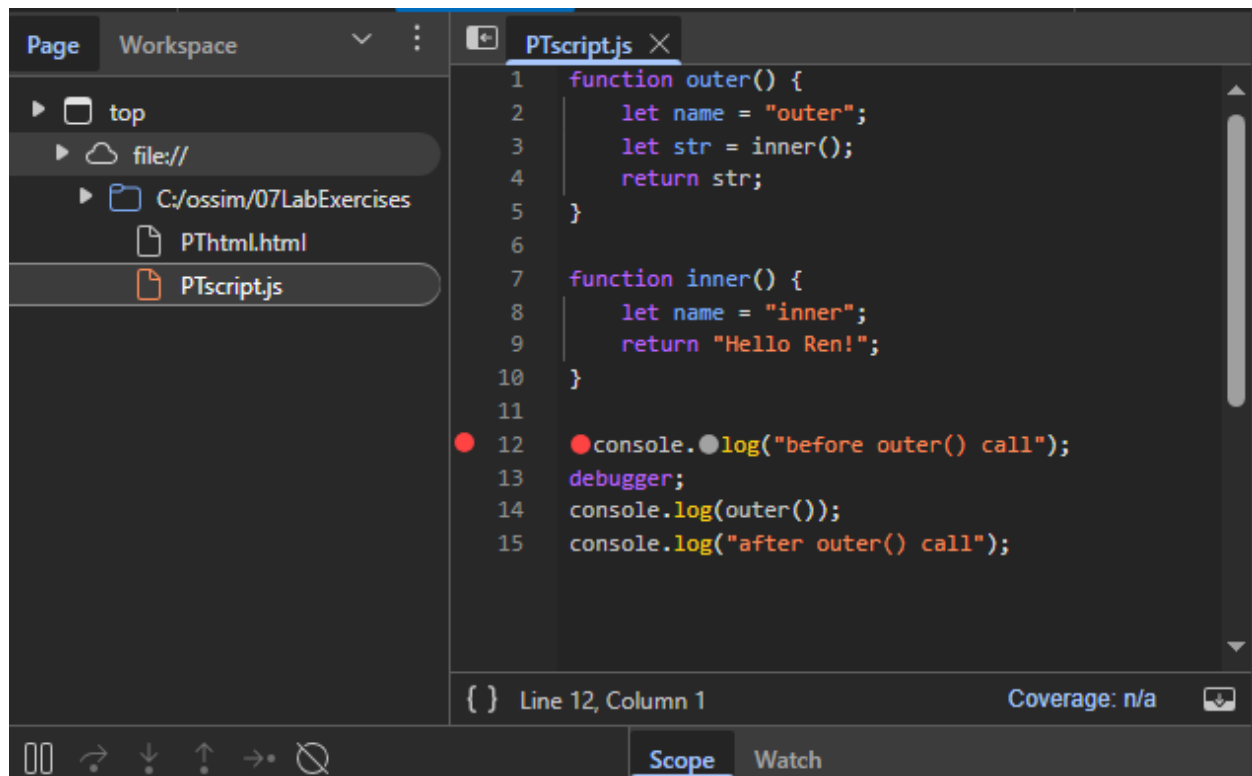
13. Removing breakpoint in line 15



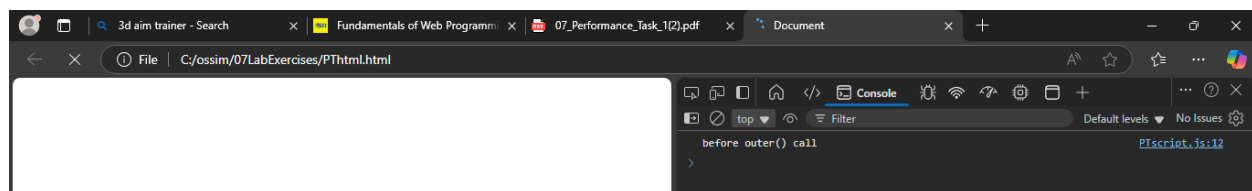
14. Removing the debugger statement



15. Set the 12th line as the new breakpoint on the browser

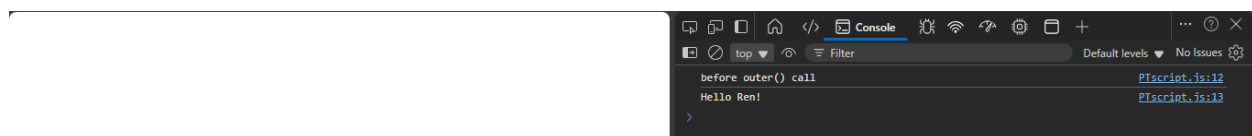


16 -17. Clicking “Step over” button



What happened: The line on the breakpoint gets executed

18. Clicking “Step Over” 2 times



20. Clicking “step into” and list the words

- outer
- inner
- “inner”

- Return
- Return "Hello Ren"
- Return str
- Console.log(outer());
- Console.log("after outer() call")
- ;

21. Clicking "step into" 6 times – result

