

Debugger Mode in vsCode



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Add Breakpoint (Debugger)



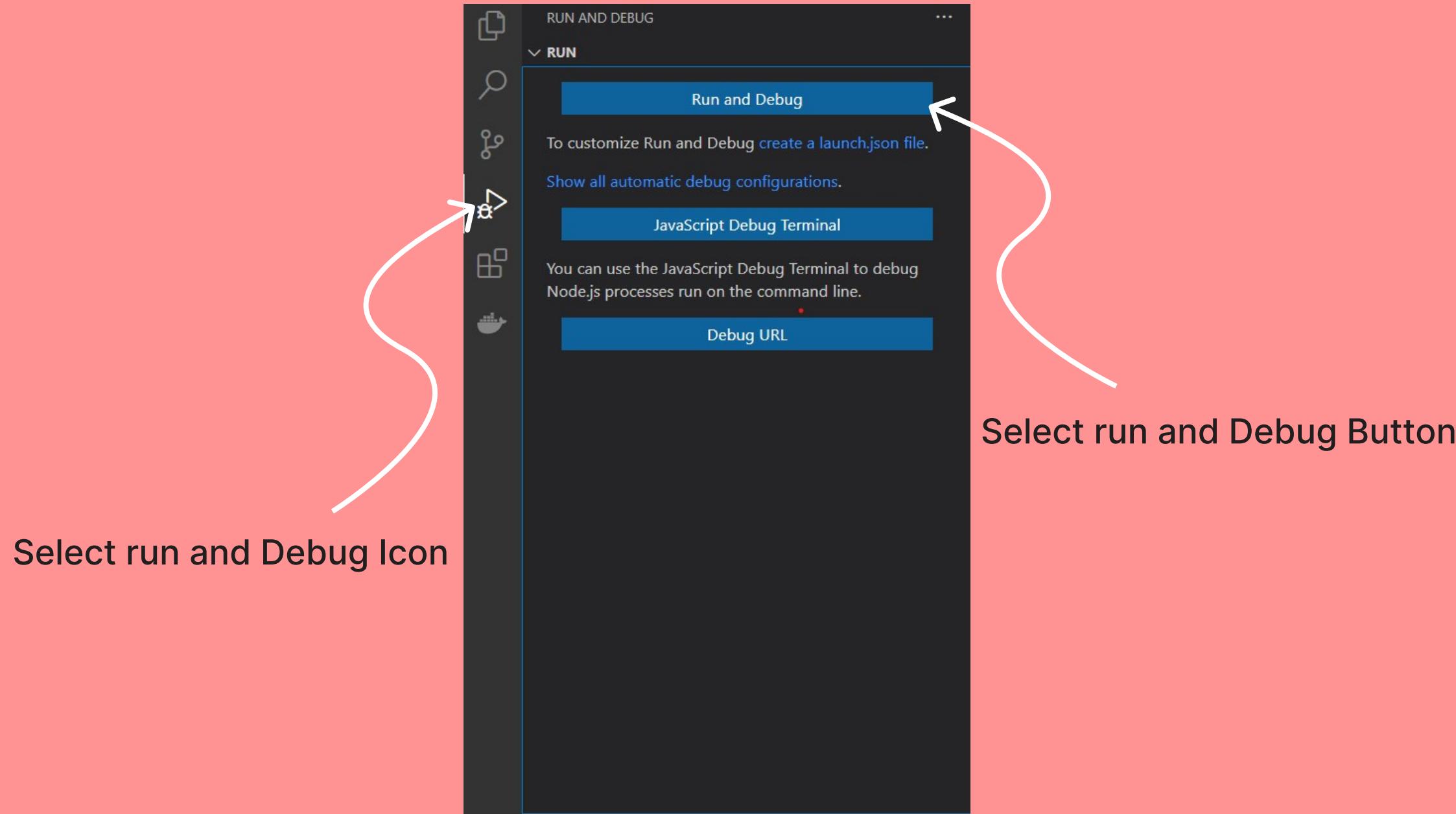
The screenshot shows a code editor window titled "script.js". The code is a JavaScript example demonstrating closures. A red arrow points from the text "Add a breakpoint to debug the code" at the bottom left to a red dot on the line 12, which contains the call to "greetPerson('World')". A tooltip labeled "Breakpoint" is visible over the red dot.

```
JS script.js    X
JS script.js > ...
1 // Closures
2
3 ∵ function outerFunction(){
4   let greeting = "Hello";
5
6 ∵   return function innerFunction(name){
7     |   console.log(` ${greeting} ${name}`);
8   }
9 }
10
11 const greetPerson = outerFunction();
12
● Breakpoint greetPerson('World')
```

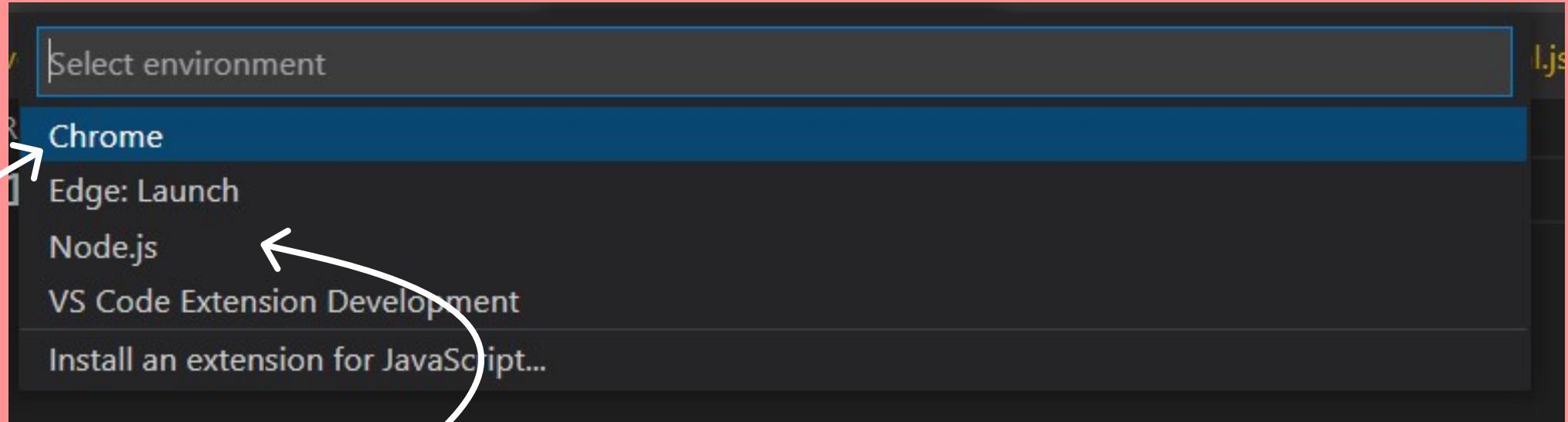
Add a breakpoint to debug the code

Note: I have written Closure code for example

Run and Debug



Choose a Environment



Code will run in Browser
using Live Server and addes
debugger

Code will run using node environment

To run, execute command **node filename** in
terminal

If you pick browser as your
preferred env. you need to
update launch.json for initial
configuration which is added
in next slide

Update Launch.JSON for Browser Environment

The screenshot shows the VS Code interface. At the top, the 'RUN AND DEBUG' bar is visible with a dropdown menu set to 'Launch Chrome against'. A white arrow points from the text 'Open launch.json' to the gear icon in the dropdown menu. Below the bar, the 'launch.json' file is open in the editor. The file content is:

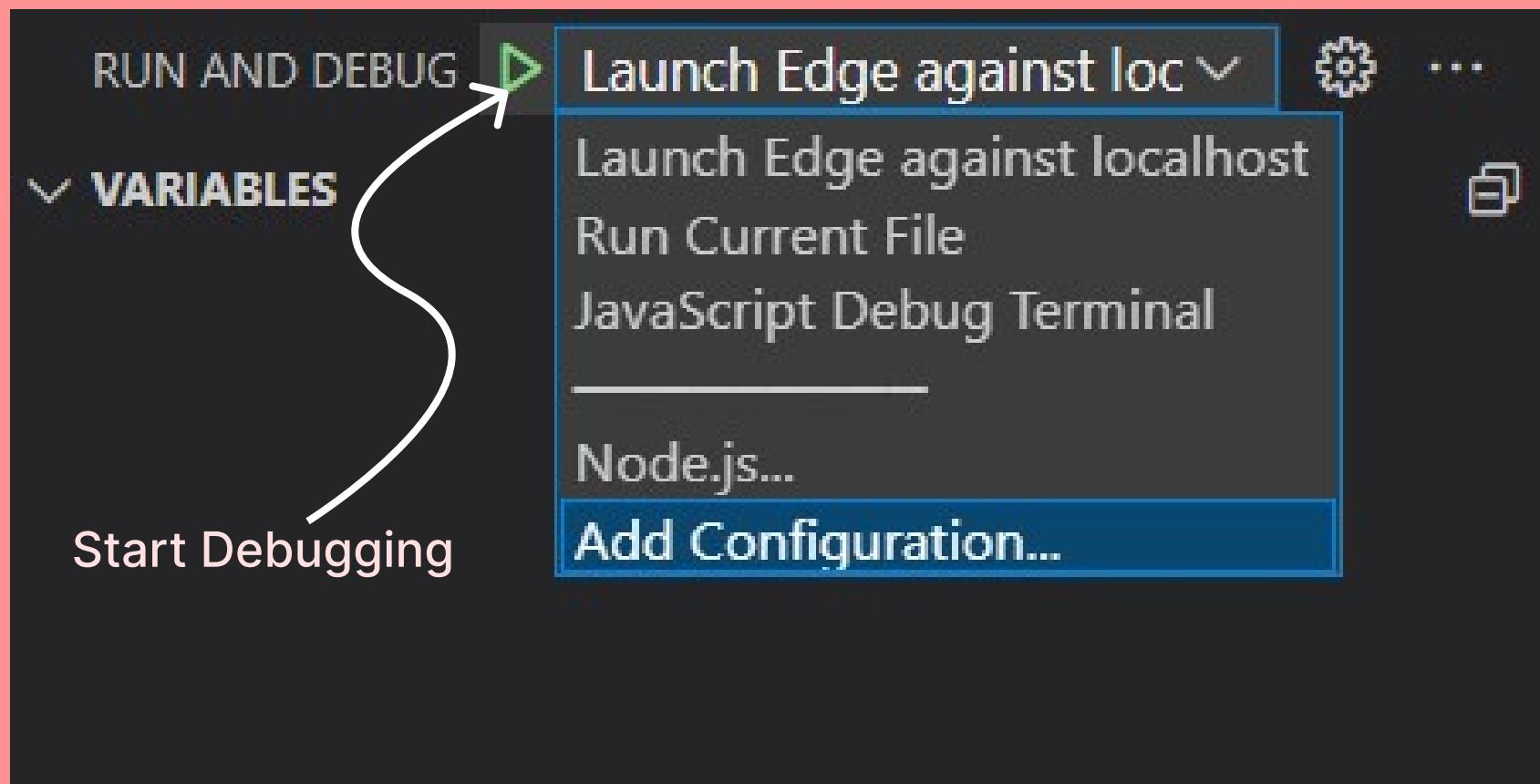
```
1  {
2      // Use IntelliSense to learn about possible attributes.
3      // Hover to view descriptions of existing attributes.
4      // For more information, visit: https://go.microsoft.com/fwlink/?linkid=830387
5      "version": "0.2.0",
6      "configurations": [
7          {
8              "type": "pwa-msedge",
9              "request": "launch",
10             "name": "Launch Edge against localhost",
11             "url": "http://127.0.0.1:5501/",
12             "webRoot": "${workspaceFolder}"
13         }
14     ]
15 }
```

A red box highlights the 'url' field in the configuration object, and a white arrow points from the text 'Update the configuration URL with URL your code is running' to this highlighted area.

Update the configuration URL with URL your code is running

Start Debugging

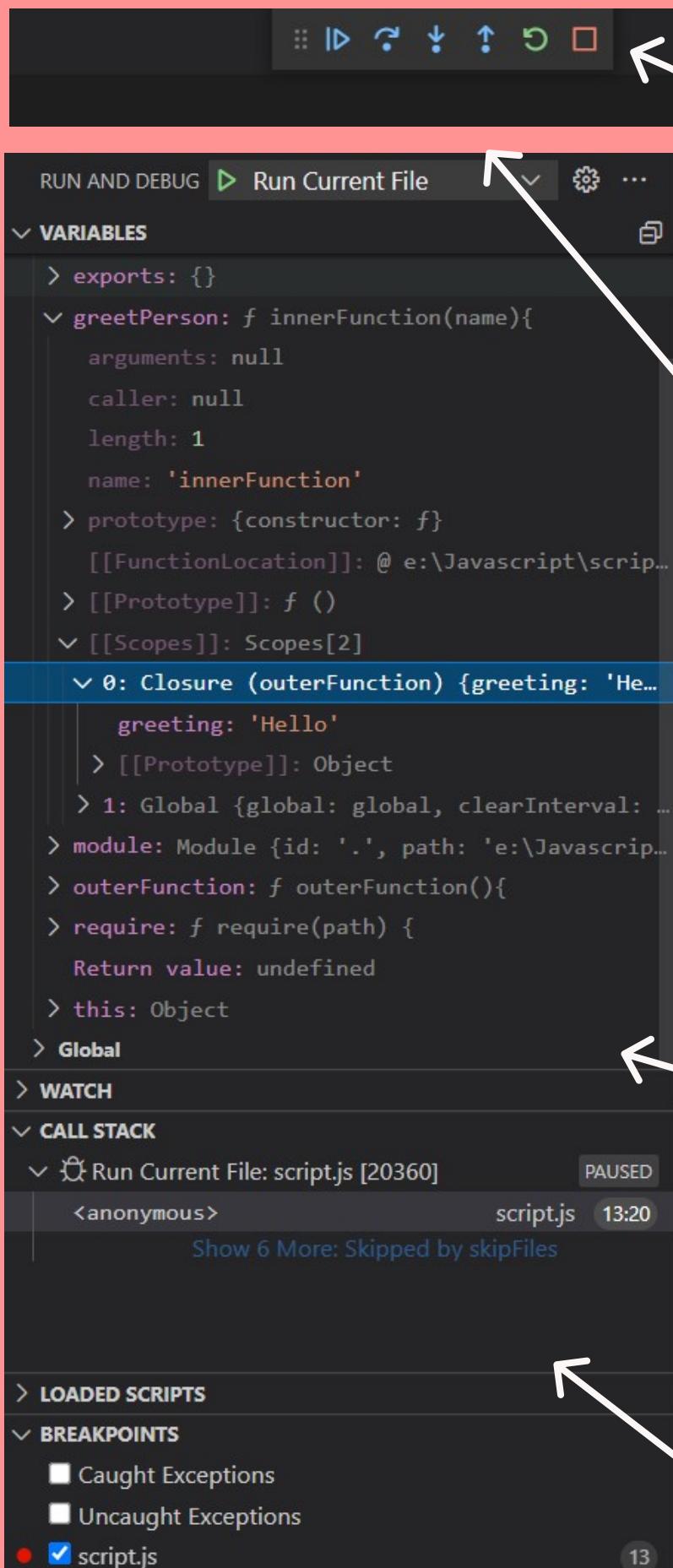
Once the initial configuration is done, you start debugging your code in VSCode



Note: If you have picked browser as preferred env. run the code using live server

If you picked Node.js , run the file from terminal

Debugger Values



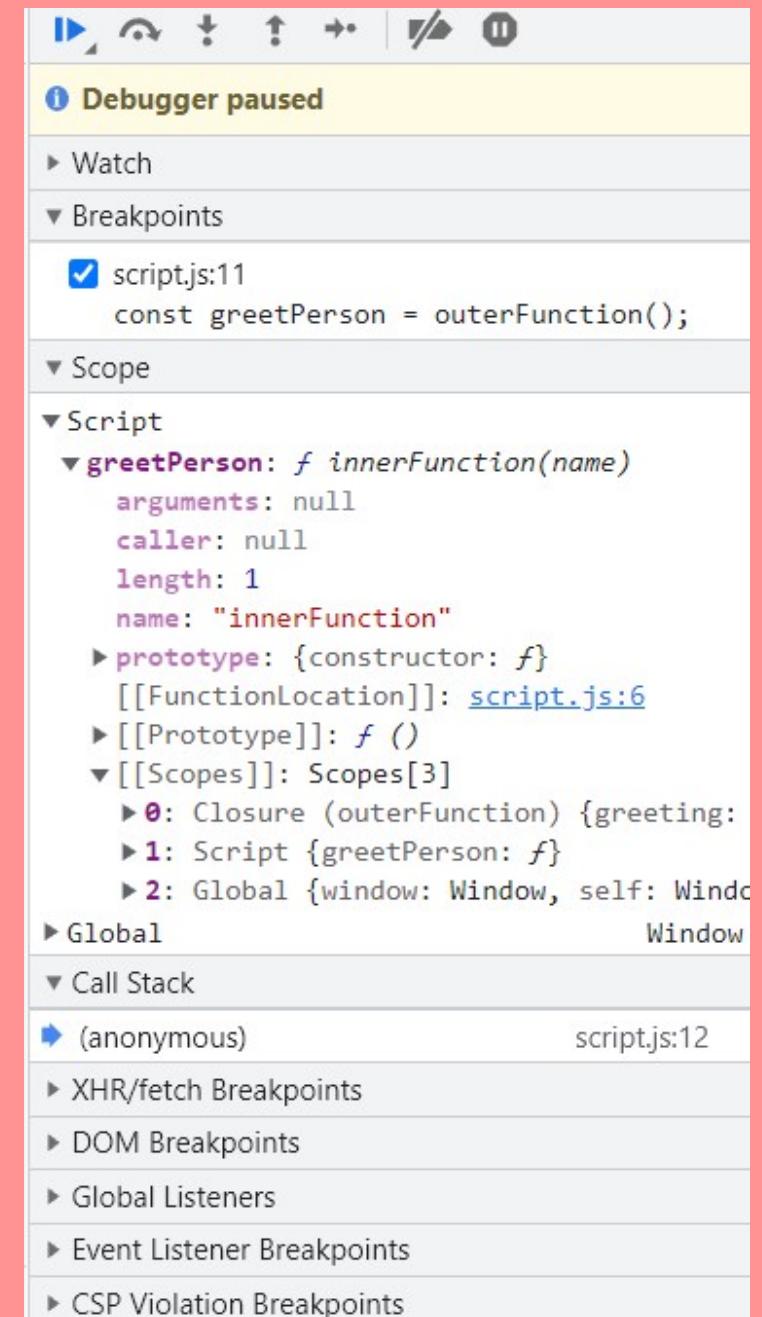
Debugger from VSCode

Tool Bar to step next and to stop

Variables

Running Call Stack

Breakpoints added files



Debugger Panel from Browser