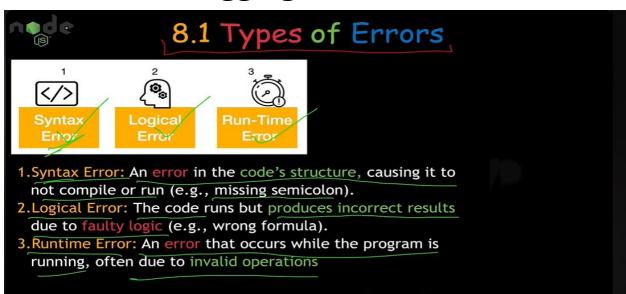
## **Error and Debugging::**



```
8.2 Syntax Errors

// Missing parenthesis in function call
console.log("Hello, world");

// Unclosed string literal
let message = "Welcome to Node.js;

// Improper use of reserved keywords
let new = 5;

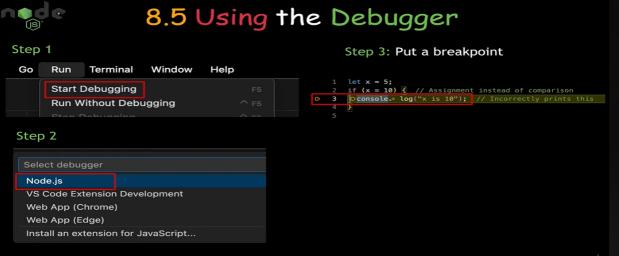
// Incorrect variable declaration (const needs an initial value const myVar;
```

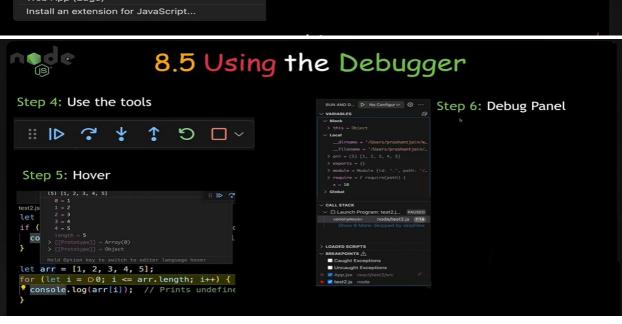


```
let x = 5;
if (x = 10) { // Assignment instead of comparison
  console.log("x is 10"); // Incorrectly prints this
}

let arr = [1, 2, 3, 4, 5];
for (let i = 0; i <= arr.length; i++) {
  console.log(arr[i]); // Prints undefined at the end of the loor
}

let num = "10";
console.log(num + 5); // Expected result: 15, prints 105</pre>
```







```
8.6 Debugger with Async Code
31
       console.log("Here");
        req.on("end", () => {
         const parsedBody = Buffer.concat(body).toString();
         console.log(parsedBody);
         const params = new URLSearchParams(parsedBody);
         const jsonObject = {};
         for (const [key, value] of params.entries()) {
           jsonObject[key] = value;
39
         const jsonString = JSON.stringify(jsonObject);
         console.log(jsonString);
         // Async Operation
         fs.writeFile("user-details.txt", jsonString, error => {
           res.setHeader("Location", "/");
44
           res.statusCode = 302;
           return res.end();
48
```

