The modern mode, "use strict", Variables

Task 11:

11. Write a script without using "use strict" and try to assign a value to an undeclared variable. Note the result.

Code:

Output:

```
      Image: The property of the pro
```

Task 12:

12 .Enable "use strict" mode and repeat the above action, noting the difference



Task 13:

In "use strict" mode, try to delete a variable, function, or function parameter

Code:

```
Default levels ▼
10
```

Task 14:

Assign a value to an undeclared variable without "use strict" and then with "use strict".

Code:

Output:

```
      P
      O
      T Filter
      Default levels ▼
      1 Issue

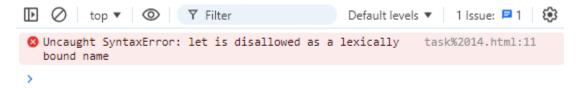
      256
      task 14.

      10
      task 14.

      > I
```

Task 15:

Declare a variable with a reserved keyword in "use strict" mode.

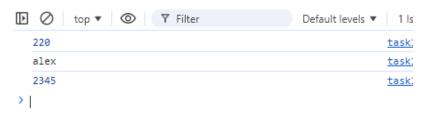


Task 16:

Declare variables using let, const, and var. Discuss when each should be used.

Code:

Output:



let:

Use when you need a variable to change over time and you want block-level scoping (e.g., in loops or conditionals).

Example: Loop counters, temporary values in conditions, etc.

const:

Use when the value should not change after initialization. This is the default choice for most variables that won't be reassigned.

Example: Constants, references to objects/arrays, etc.

var:

Use only in legacy code or when working with functions in very specific scenarios. Avoid using var in modern JavaScript to prevent scoping issues and bugs caused by hoisting.

Task 17:

Attempt to reassign a const variable and observe the result.

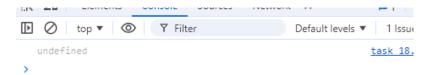
Code:

Task 18:

Declare a variable without initializing it and print its value.

Code:

Output:



Task 19:

Assign a number, string, and boolean value to a variable and print its type using typeof.

```
        string
        task19.html:12

        number
        task19.html:13

        boolean
        task19.html:14
```

Task 20:

Rename a variable and observe the outcome.

Code:

```
Default levels ▼ 1 Issue: ■ 1 €

john

task20.html:12
```

Data types, Basic operators, maths

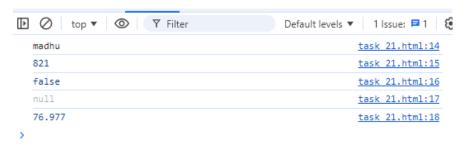
Task 21:

Create variables of different data types (e.g., string, number, boolean, null, undefined, object).

Code:

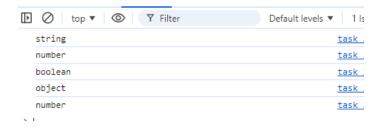
```
> Users > Student.MAT-54.000 > 😈 task 21.htm
                 task
         </head>
             <script>
                 let name="madhu";
                 let num=821;
                 let san=false;
                 let litter=null;
                 let fre=76.977;
14
                console.log(name);
15
                console.log(num);
16
                console.log(san);
                 console.log(litter);
                console.log(fre);
```

Output:



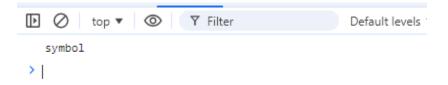
Task 22:

Use the typeof operator to determine the type of various variables.



Task 23:

Declare a symbol and print its type.

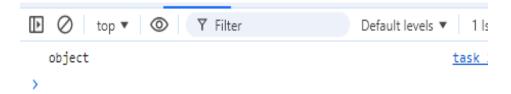


Task 24:

Assign the value null to a variable and check its type using typeof.

Code:

Output:



Task 25:

Differentiate between declaring a variable using var and let in terms of scope.