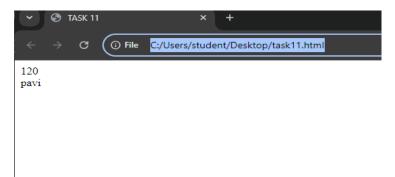
The modern mode, "use strict", Variables

1.The modern mode, "use strict":

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

Code:

Output:



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

Code:

Output:



Difference:

Strict Mode: Throws an error if you try to use undeclared variables (e.g., a = 100; without let, var, or const).

Non-strict Mode: Allows undeclared variables to be automatically created as global variables without throwing an error.

Task 13: In "use strict" mode, try to delete a variable, function, or function parameter

Code:

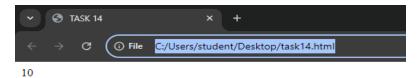
Output:



Task 14: Assign a value to an undeclared variable without "use strict" and then with "use strict"

Code:

Output:





<u>Task 15:</u> Declare a variable with a reserved keyword in "use strict" mode.

Code:

```
<html><head>
<title>TASK 15</title>
</head>
<body>

<script>
"use strict";
let let=10;
document.writeln(a);

</script>
</body></html>
```

Output:

2. Variables:

Task 16: Declare variables using let, const, and var. Discuss when each should be used.

Code:

Output:



Use of let, var, const:

Scope:

let and const: Are limited to the block where they are declared.

var: Is accessible throughout the function or globally if declared outside a function.

Reassignment:

let: Can be reassigned, but cannot be redeclared in the same scope.

const: Cannot be reassigned or redeclared.

var: Can be both reassigned and redeclared in the same scope.

Task 17: Attempt to reassign a const variable and observe the result.

Code:

<u>Task 18:</u> Declare a variable without initializing it and print its value.

Code:

Output:



undefined

Output:



Task 19: Assign a number, string, and boolean value to a variable and print its type using typeof

```
Code:
<html><head>
<title>TASK 19</title>
</head>
<body>
   <script>
let a=10;
var name="hi";
const b=true;
document.writeln(typeof(a)+"<br>");
document.writeln(typeof(name)+"<br>");
document.writeln(typeof(b)+"<br>");
         </script>
</body></html>
Output:
    TASK 19
            (i) File C:/Users/student/Desktop/task19.html
 number
 string
 boolean
```

Task 20: Rename a variable and observe the outcome.

Code:

```
<html><head>
<title>TASK 20</title>
</head>
<body>
   <script>
let a=10;
var name="hi";
const b=true;
let c=a;
var name1=name;
const d=b;
document.writeln(c+"<br>");
document.writeln(name1+"<br>");
document.writeln(d+"<br>");
       </script>
```

</body></html> Output:

