Code structure:

Task 6:

Write a multi-line JavaScript comment and a single-line comment. Explain the difference.

CODE:

OUTPUT:



DIFFERENCE:

1. Single-line Comment

- **Syntax**: Starts with // and comments out the rest of the line.
- Usage: Best for brief comments or notes that fit on one line.

2. Multi-line Comment

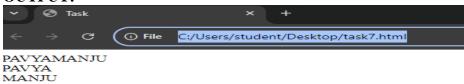
- Syntax: Starts with /* and ends with */. It can span multiple lines.
- **Usage**: Ideal for longer comments, detailed explanations, or commenting out blocks of code.

Task 7:

Create a script with both semicolon-separated and not separated lines. Note any differences in behavior.

CODE:

OUTPUT:



DIFFERNCE:

• Semicolon-Separated Lines:

- Each statement is explicitly terminated with a semicolon (;).
- This is the standard, explicit way to end statements in JavaScript.
- It avoids ambiguity and ensures that the code behaves predictably across different environments.

• Non-Semicolon-Separated Lines:

- Statements are written without semicolons.
- JavaScript has **Automatic Semicolon Insertion (ASI)**, meaning it will try to insert semicolons at the end of statements where necessary.
- ASI works in most cases, but there are specific scenarios where it might not behave as expected, leading to potential errors or unexpected behavior.

Task 8

Use proper indentation to format a nested loop.

CODE:

OUTPUT:

```
✓ Task × +

← → C (3 File C:/Users/student/Desktop/task8.html
```

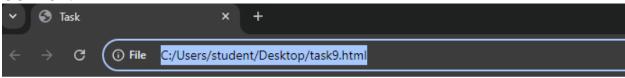
```
i equals j 0
i does not equal 1
i does not equal 0
i equals j 1
```

Task 9:

Declare multiple variables in a single line.

CODE:

OUTPUT:



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Task 10:

Place a script tag at the top and bottom of an HTML document. Note any differences in behavior.

CODE:

```
document.writeln(b);
  </script>
  </body>
  </html>
```

OUTPUT:

```
← → C (i) File C:/Users/student/Desktop/task9.html
```

SCRIPT IN BOTTOM

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CODE:

OUTPUT:

