UID: 2405024 Date: 11/07/2025

Subject\_name: Web Designing and Programming

# Practical: 5C (Hands on Javascript)

Aim: To Demonstrate the use of Javascript.

Question: Write a javascript program to display the area of circle

# **Concepts:**

Tag / Element	Attribute / Method / Value	Purpose / Usage
<pre><script src="area.js"></pre></td><td>_</td><td>Links an external JavaScript file containing the logic to calculate area</td></tr><tr><td>var r = 10;</td><td></td><td>Declares a variable for the radius of the circle</td></tr><tr><td>Math.PI</td><td>_</td><td>Built-in JavaScript constant for the value of <math>\pi</math> (pi)</td></tr><tr><td>r * r * Math.PI</td><td></td><td>Formula used to calculate the area of the circle</td></tr><tr><td>document.write()</td><td>_</td><td>Dynamically writes the radius and area to the HTML document</td></tr></tbody></table></script></pre>		

## Difference between var and let:

var	let
Function-scoped	Block-scoped
Allows re-declaration	Does <b>not</b> allow re-declaration

Difference between console.log() and document.write():

console.log()	document.write()
Outputs to the browser console (debug)	Writes directly to the web page
Mainly used for debugging	Used to display content on the document

#### Code:

index.html

myjs.js

```
document.write("<h2>Area of Circle Calculator</h2>");
let r = 10;
var area = r * r * Math.PI;
document.write("Radius: " + r + "<br>');
document.write("Area of Circle: " + area);
```

## **Output:**

# **Area of Circle Calculator**

Radius: 10

Area of Circle: 314.1592653589793

### **Conclusion:**

Through this practical, I learnt how to use JavaScript to perform mathematical calculations and display results on a webpage. By applying the formula for the area of a circle using Math.PI and variables, I understood how JavaScript can handle real-time computation and output using external scripts.