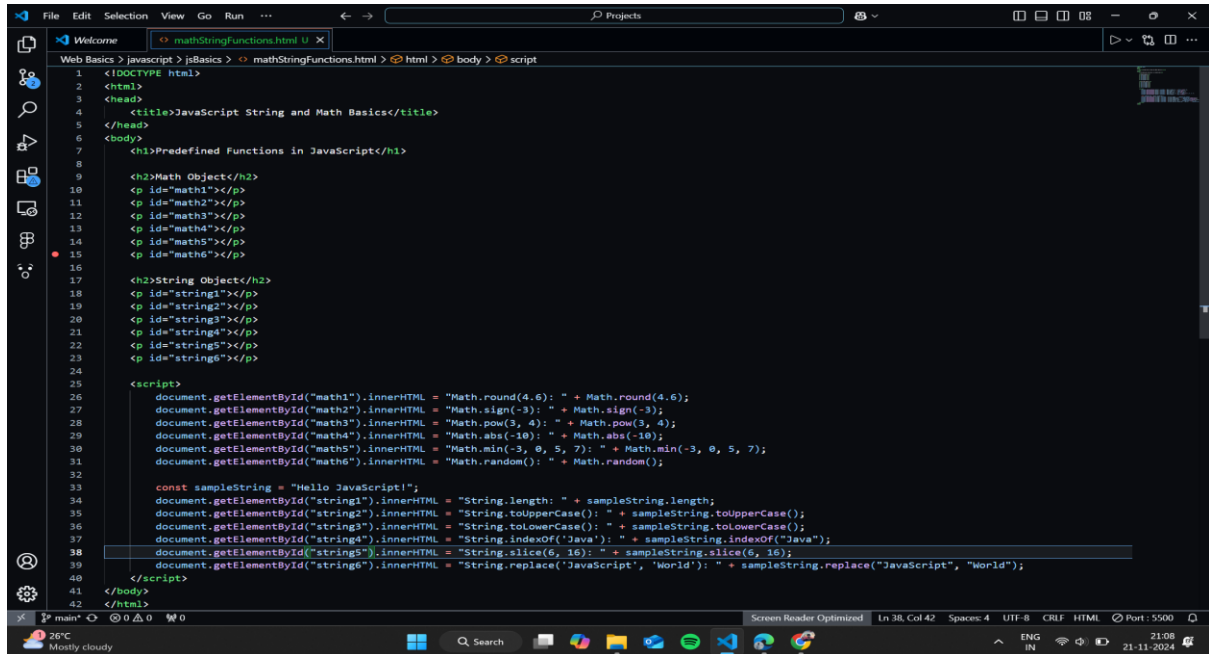


Program# 6: Create an HTML page to demonstrate the use of various predefined functions in a string and math object in java script.

PROGRAM:



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>JavaScript String and Math Basics</title>
5 </head>
6 <body>
7 <h1>Predefined Functions in JavaScript</h1>
8
9 <h2>Math Object</h2>
10 <p id="math1"></p>
11 <p id="math2"></p>
12 <p id="math3"></p>
13 <p id="math4"></p>
14 <p id="math5"></p>
15 <p id="math6"></p>
16
17 <h2>String Object</h2>
18 <p id="string1"></p>
19 <p id="string2"></p>
20 <p id="string3"></p>
21 <p id="string4"></p>
22 <p id="string5"></p>
23 <p id="string6"></p>
24
25 <script>
26 document.getElementById("math1").innerHTML = "Math.round(4.6): " + Math.round(4.6);
27 document.getElementById("math2").innerHTML = "Math.sign(-3): " + Math.sign(-3);
28 document.getElementById("math3").innerHTML = "Math.pow(3, 4): " + Math.pow(3, 4);
29 document.getElementById("math4").innerHTML = "Math.abs(-10): " + Math.abs(-10);
30 document.getElementById("math5").innerHTML = "Math.min(-3, 0, 5, 7): " + Math.min(-3, 0, 5, 7);
31 document.getElementById("math6").innerHTML = "Math.random(): " + Math.random();
32
33 const sampleString = "Hello JavaScript!";
34 document.getElementById("string1").innerHTML = "String.length: " + sampleString.length;
35 document.getElementById("string2").innerHTML = "String.toUpperCase(): " + sampleString.toUpperCase();
36 document.getElementById("string3").innerHTML = "String.toLowerCase(): " + sampleString.toLowerCase();
37 document.getElementById("string4").innerHTML = "String.indexOf('Java'): " + sampleString.indexOf("Java");
38 document.getElementById("string5").innerHTML = "String.slice(6, 16): " + sampleString.slice(6, 16);
39 document.getElementById("string6").innerHTML = "String.replace('JavaScript', 'World'): " + sampleString.replace("JavaScript", "World");
40 </script>
41 </body>
42 </html>
```

OUTPUT:

## Predefined Functions in JavaScript

### Math Object

Math.round(4.6): 5  
Math.sign(-3): -1  
Math.pow(3, 4): 81  
Math.abs(-10): 10  
Math.min(-3, 0, 5, 7): -3  
Math.random(): 0.5913379023862779

### String Object

String.length: 17  
String.toUpperCase(): HELLO JAVASCRIPT!  
String.toLowerCase(): hello javascript!  
String.indexOf('Java'): 6  
String.slice(6, 16): JavaScript  
String.replace('JavaScript', 'World'): Hello World!