

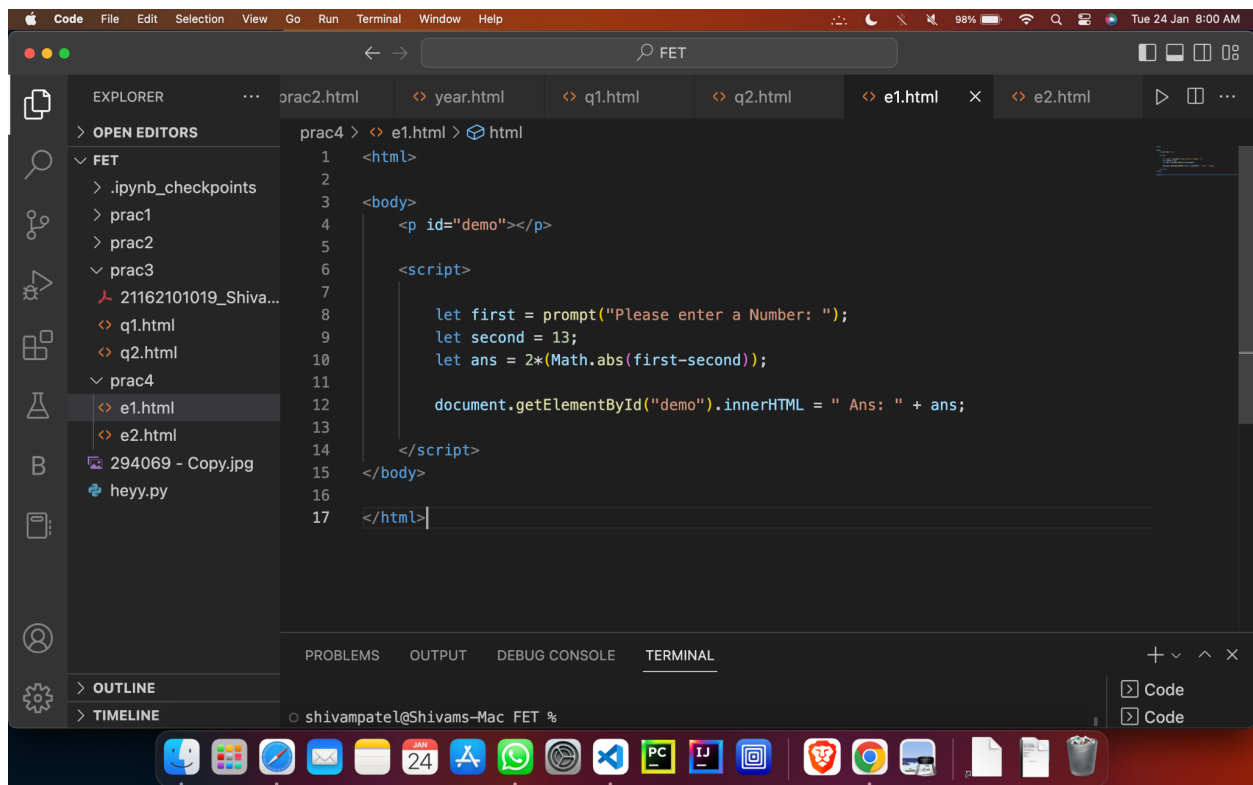
Name: Patel Shivamkumar S.
Enroll No: 21162101019
Branch: CBA Batch: 41. Sem : 4
Subject: FET

PRACTICAL 4

Objective: To understand the usage of Math object in JavaScript.

Exercise 1: You are about to develop a cryptographic algorithm in which there is a need to get double the absolute difference between a given number and 13. Develop the logic in JavaScript.

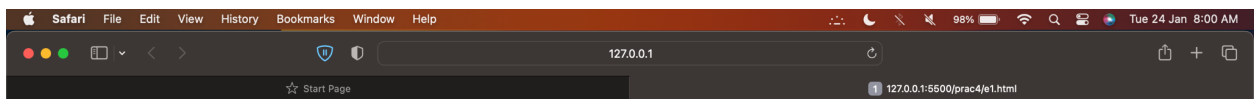
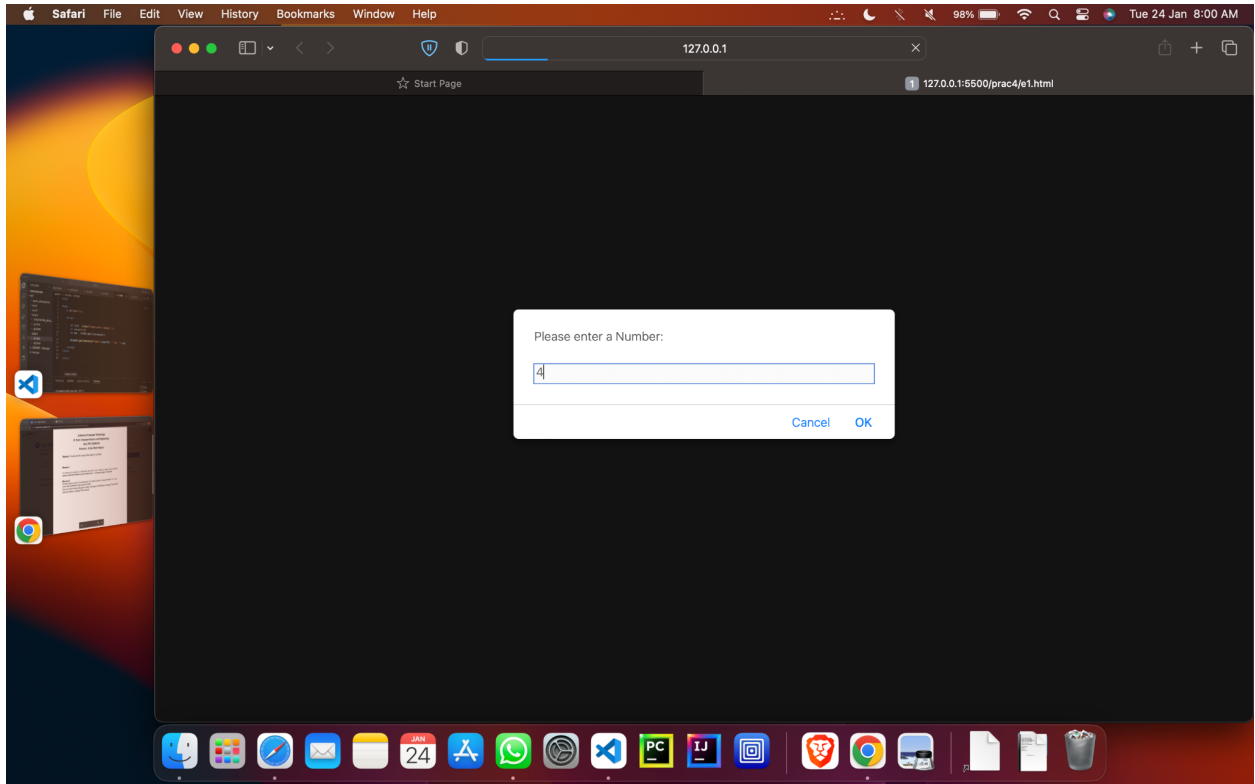
CODE:

A screenshot of a code editor interface, likely Visual Studio Code, showing a JavaScript file named e1.html. The code is a simple web page with a prompt box and a script that calculates the absolute difference between a user input and 13, then doubles it. The code is as follows:

```
1 <html>
2
3 <body>
4   <p id="demo"></p>
5
6   <script>
7
8     let first = prompt("Please enter a Number: ");
9     let second = 13;
10    let ans = 2*(Math.abs(first-second));
11
12    document.getElementById("demo").innerHTML = " Ans: " + ans;
13
14  </script>
15 </body>
16
17 </html>
```

The editor's Explorer sidebar on the left shows a project structure with folders for 'FET', 'prac1', 'prac2', 'prac3', and 'prac4'. The 'prac4' folder is expanded, showing 'e1.html' and 'e2.html'. The bottom status bar indicates the user is 'shivampatel@Shivams-Mac' and the file is 'FET %'.

OUTPUT:



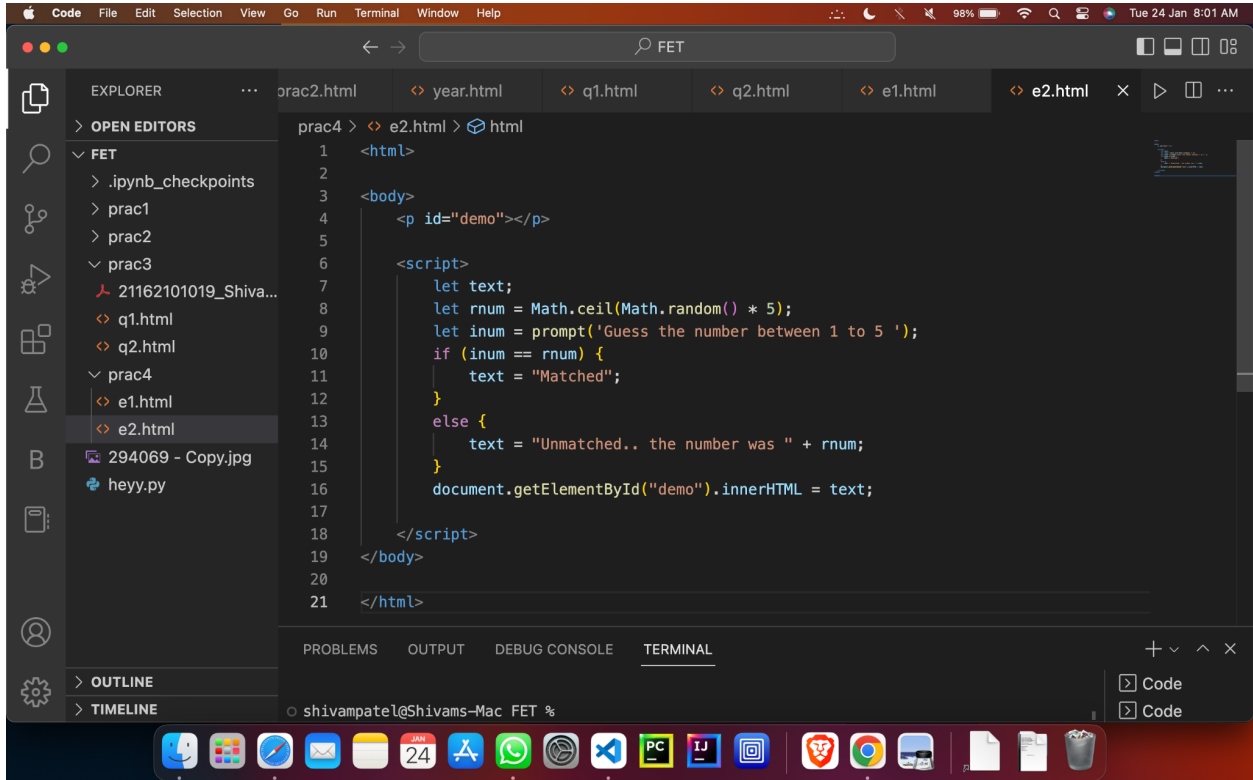
Ans: 18



Exercise 2:

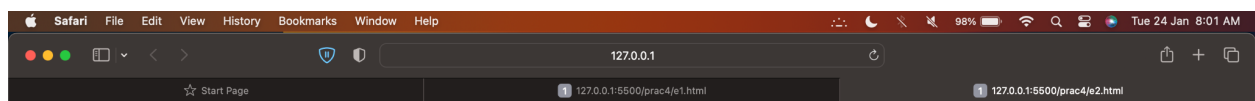
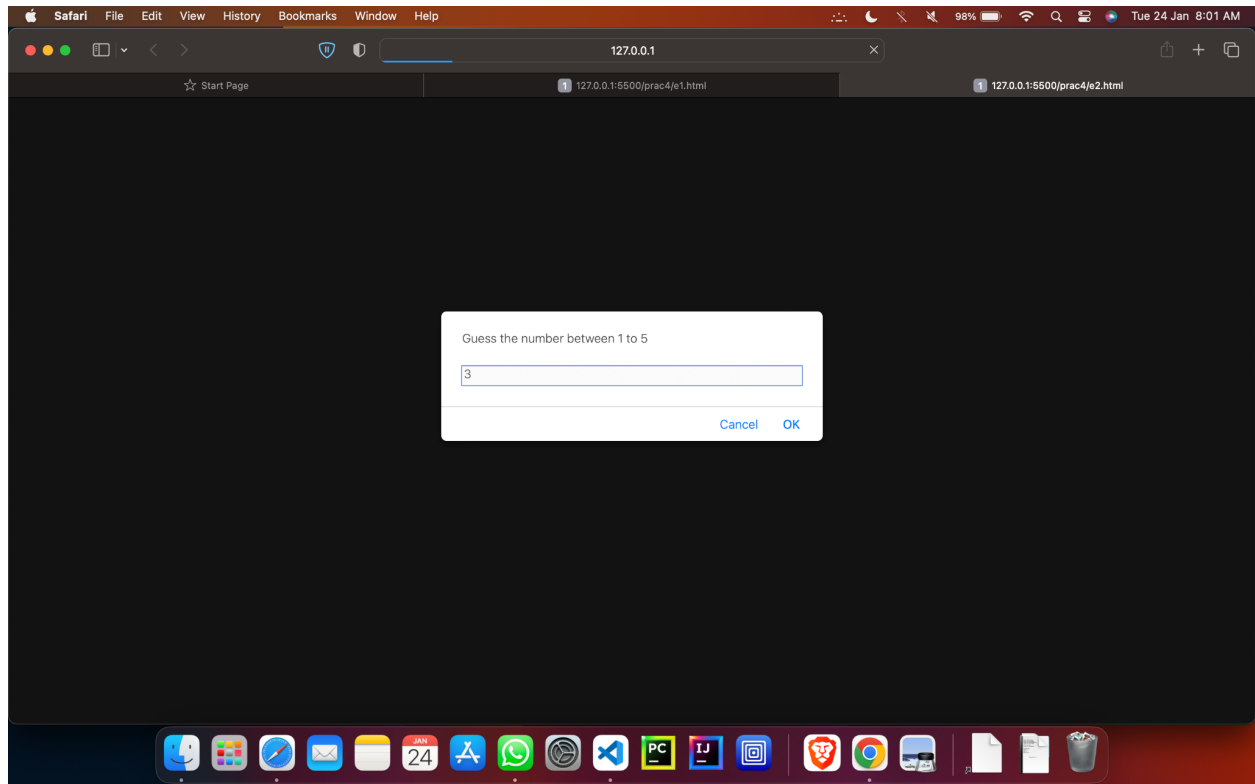
A small guessing game is to be developed which takes a random integer between 1 to 5, the user is then prompted to input a guess number. If the user input matches with guess number, the program will display a message “Good Work”; otherwise display a message “Not matched”;

CODE:

A screenshot of the Visual Studio Code editor interface. The Explorer sidebar on the left shows a project structure with folders 'FET', '.ipynb_checkpoints', 'prac1', 'prac2', 'prac3', and 'prac4'. Under 'prac4', files 'e1.html' and 'e2.html' are listed. The main editor window displays the code for 'e2.html'. The code is an HTML document with a body containing a paragraph with id 'demo' and a script block. The script generates a random number between 1 and 5, prompts the user to guess, and updates the paragraph's content based on whether the guess is correct. The bottom status bar shows the user 'shivampatel@Shivams-Mac' and the file 'FET %'.

```
1 <html>
2
3 <body>
4   <p id="demo"></p>
5
6   <script>
7     let text;
8     let rnum = Math.ceil(Math.random() * 5);
9     let inum = prompt('Guess the number between 1 to 5 ');
10    if (inum == rnum) {
11      text = "Matched";
12    }
13    else {
14      text = "Unmatched.. the number was " + rnum;
15    }
16    document.getElementById("demo").innerHTML = text;
17  </script>
18 </body>
19 </html>
```

OUTPUT:



Unmatched.. the number was 2



GITHUB LINK:

<https://github.com/Shivam3783/FET-PRACTICALS/tree/main/PRAC4>