Application Development Lab Assignment

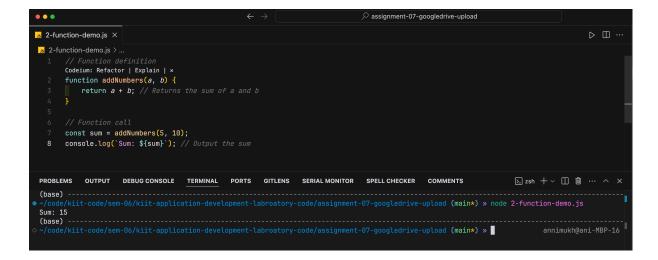
Submitted by Aniruddha Mukherjee [2205533] CSE-16

Q1:

Design A JavaScript to display whether given number is prime or not.

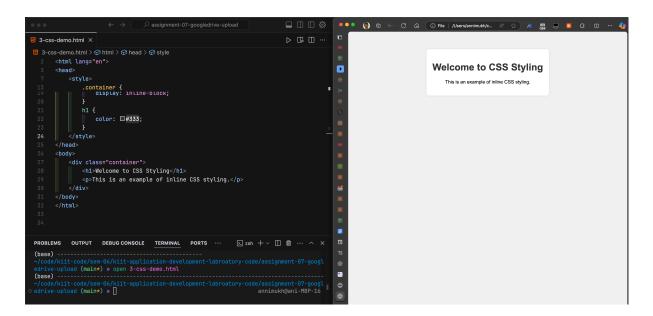
Q2:

Explain about Function definition, Function calling, Function parameter, return type with a suitable program in JavaScript.



Q3:

Explain about Cascading Style Sheets with a program



Q4:

Explain various operators and data types available in java script with examples

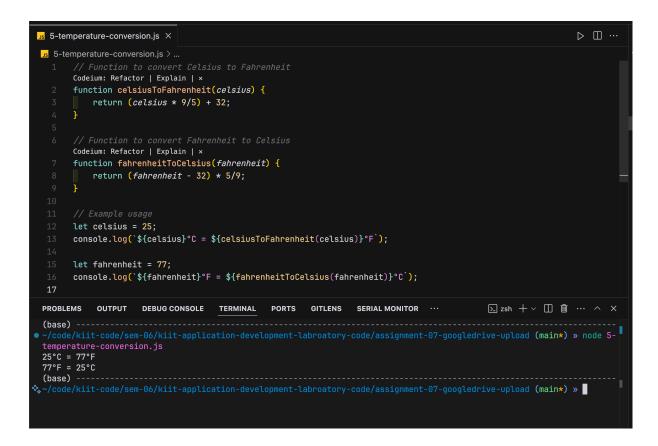
```
## 4-operators-data-types.js ×

## 4-operators-data-types.js > ...

| A-fithwests generators
| Let a = 1a, b = 5;
| console.log('Addition: ${a + b}');
| console.log('Addition: ${a + b}');
| console.log('Mutiplication: ${a + b}');
| console.log('Butiplication: ${a + b}');
| console.log('Equal: ${a = b}');
| console.log('Equal: ${a = b}');
| console.log('Graph: ${a + b}');
| console.log('String: ${a + b
```

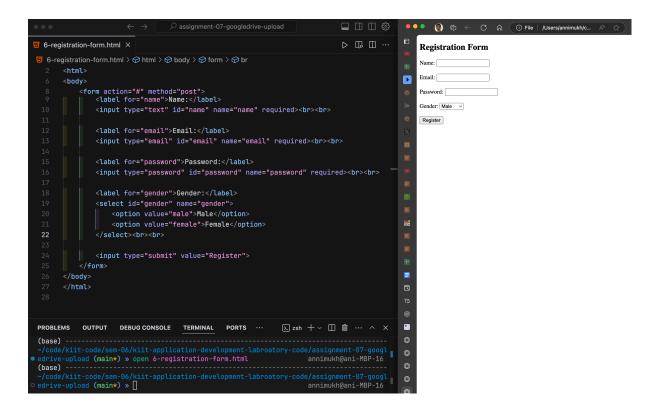
Q5:

Build a JavaScript program to convert temperature from Celsius to Fahrenheit and vice versa



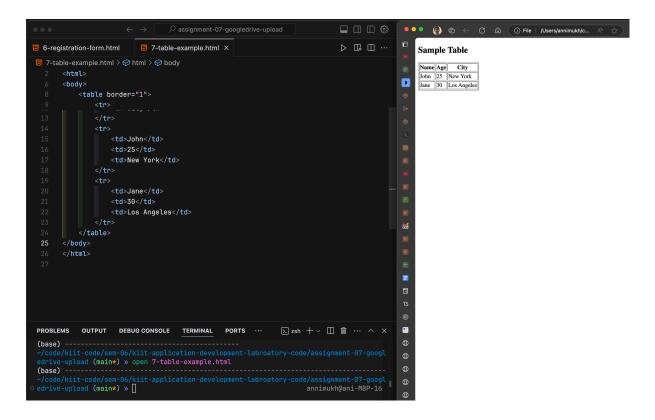
Q6:

Define Form tag. Design a Registration page by using all Form controls



Q7:

Define Table tag and their attributes with an example.



Q8:

Write a JavaScript program to print all indices of an array where perfect numbers are present.

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us 8-perfect-numbers.js ×
 s -perfect-numbers.js > ...
       function isPerfect(num) {
           let sum = 0;
            for (let i = 1; i < num; i++) {
               if (num % i === 0) {
            return sum === num;
       // Function to find indices of perfect numbers in an array Codeium: Refactor | Explain | \mathbf x
       function findPerfectIndices(arr) {
           return arr.map((num, index) => isPerfect(num) ? index : -1).filter(index => index !== -1);
       let numbers = [6, 28, 12, 496, 8128, 7];
  18
       console.log(`Indices of perfect numbers: ${findPerfectIndices(numbers)}`);
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 PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS SERIAL MONITOR ...
  -/code/kiit-code/sem-06/kiit-application-development-labroatory-code/assignment-07-googledrive-upload (main*) » node 8-perfe
 Indices of perfect numbers: 0,1,3,4
 (base)
�_~/code/kiit-code/sem-06/kiit-application-development-labroatory-code/assignment-07-googledrive-upload (main*) »
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Q9:

Write a JavaScript program to validate e-mail id, phone number and password

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Js 9-validation.js > ...
       Codeium: Refactor | Explain | \times
       function validateEmail(email) {
           const regex = /^[^\s@]+\@[^\s@]+\.[^\s@]+$/;
           return regex.test(email);
       Codeium: Refactor | Explain | ×
       function validatePhone(phone) {
          const regex = /^\d{10}$/;
           return regex.test(phone);
       Codeium: Refactor | Explain | \times
       function validatePassword(password) {
        const regex = /^(?=.*[A-Za-z])(?=.*\d)(?=.*[@$!%*?&])[A-Za-z\d@$!%*?&]{8,}$/;
           return regex.test(password);
       const email = "test@example.com";
       const phone = "1234567890";
       const password = "Test@1234";
       console.log(`Email valid: ${validateEmail(email)}`);
       console.log(`Phone valid: ${validatePhone(phone)}`);
       console.log(`Password valid: ${validatePassword(password)}`);
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 PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS SERIAL MONITOR ...
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 (base) --
 ~/code/kiit-code/sem-06/kiit-application-development-labroatory-code/assignment-07-googledrive-upload (main*) » node 9-valid
 Email valid: true
 Phone valid: true
 Password valid: true
 (base) -
🗞 ~/code/kiit-code/sem-06/kiit-application-development-labroatory-code/assignment-07-googledrive-upload (main*) »
```