

CvSU Vision

The premier University in historic Cavite recognized for excellence in the development of globally competitive and morally upright individuals.

**CAVITE STATE UNIVERSITY****Imus Campus**

Cavite Civic Center Palico IV, Imus, Cavite
(046) 471-66-07 / (046) 471-67-70 / (046) 686- 23-49
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CvSU Mission

Cavite State University shall provide excellent, equitable and relevant educational opportunities in the arts, sciences and technology through quality instruction and responsive research and development activities.
It shall produce professional, skilled and morally upright individuals for global competitiveness.

DEPARTMENT OF COMPUTER STUDIES
ITEC 106 – IT ELECTIVE 2 (WEB SYSTEM AND TECHNOLOGIES 2)

Name : De Jesus, Juvyn Marc	Section : BSIT 3A
Assignment No :	Submission Date : May.4, 2024
Assignment Title: GitHub Activity	

Code :**HTML FILE**

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Fibonacci Series</title>
</head>
<body>
  <script src="Fibonacci.js"></script>
<h2>Generate Fibonacci Series</h2>

<label for="terms">Enter the number of terms:</label>
<input type="number" id="terms" name="terms" min="1" max="99">
<button onclick="generateFibonacci()">Generate</button>

<p id="output"></p>
```

JS FILE

```
function fibonacci(iterations) {
  let fibSeries = [];
  let a = 0, b = 1, temp;

  for (let i = 0; i < iterations; i++) {
    fibSeries.push(a);
    temp = a + b;
```

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```
        a = b;
        b = temp;
    }

    return fibSeries;
}

function isInteger(value) {
    return /^\d+$/ .test(value);
}

function isValidInput(value) {
    return isInteger(value) && parseInt(value) < 100;
}

function getUserInput() {
    let input = prompt("Enter the number of terms in the Fibonacci
sequence (less than 100):");

    if (input === null) {

        return null;
    } else if (!isValidInput(input)) {
        alert("Invalid input. Please enter a valid integer less than
100.");
        return getUserInput();
    } else {
        return parseInt(input);
    }
}

function printFibonacciSequence() {
    let terms = getUserInput();

    if (terms !== null) {
```

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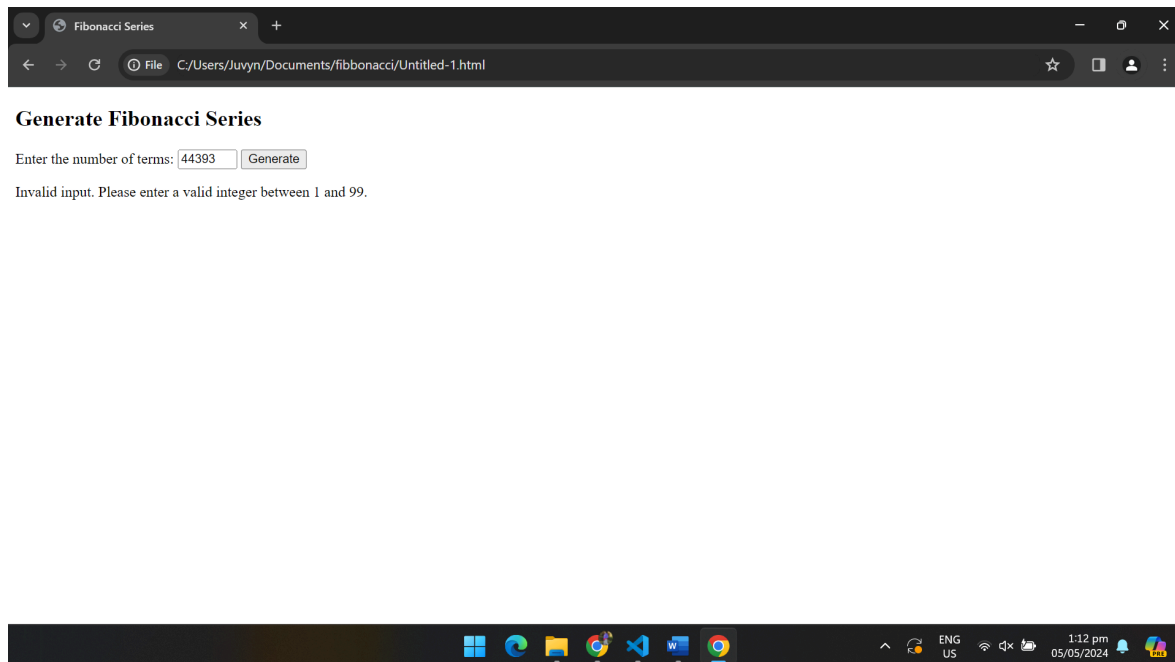
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```
let sequence = fibonacci(terms);  
console.log("Fibonacci sequence:");  
console.log(sequence.join(", "));  
} else {  
    console.log("User cancelled input.");  
}  
}  
  
printFibonacciSequence();
```

SCREENSHOT



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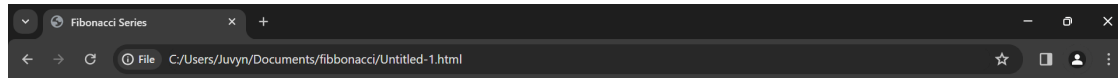
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Generate Fibonacci Series

Enter the number of terms:

Fibonacci sequence: 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377, 610, 987, 1597, 2584, 4181, 6765, 10946, 17711, 28657, 46368, 75025, 121393, 196418, 317811, 514229, 832040, 1346269, 2178309, 3524578, 5702887, 9227465, 14930352, 24157817, 39088169, 63245986, 102334155, 165580141, 267914296, 433494437, 701408733, 1134903170, 1836311903, 2971215073, 4807526976, 7778742049, 12586269025, 20365011074, 32951280099, 53316291173, 86267571272, 139583862445, 225851433717, 365435296162

