CvSU Vision

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

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 : Mark Jules Barrantes	Section : BSIT 3A
Assignment No : 4	Submission Date : May. 4, 2024
Assignment Title: Fibonacci Sequence	

Code :

HTML FILE
```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Fibonacci Sequence</title>
  </head>
<body>
  <body>
  <div class="random-div">
    <script src="script.js"></script>
  </div>
</body>

</body>
</html>
```

JS FILE
```js
function sequence(num) {

  let FibonacciSequence = [];
  let n0 = 0; //term 0
  let n1 = 1; //term 1
  let counter = 0;
  num = num + 1 //acounting for Term 0
```

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```javascript
    while (counter < num){ //acounting for Term 0
        FibonacciSequence.push(n0);
        let temp = n0;
        n0 = n1;
        n1 = temp + n1;
        counter++;
    }
    alert("Fibonacci Sequence: \n" + FibonacciSequence.join("\n"));
}
function main() {

    let input = prompt("Enter the number of terms for the Fibonacci Secuence (must be between 0 and 100");

    if (!isNaN(input)) {
        let num = parseFloat(input)
        if (!Number.isInteger(num)) {
            alert("Please enter an Integer that is also less than 100");
            main();
        }
        else if (num >= 100){

        }
        else if (num <= 0) {
            alert("Please enter a valid positive Integer")
            main();
        }
        else {
            num = parseInt(input);
            sequence(num);
        }
    }
    else {
        alert("Invalid Input")
        main();
    }
}
main()
```

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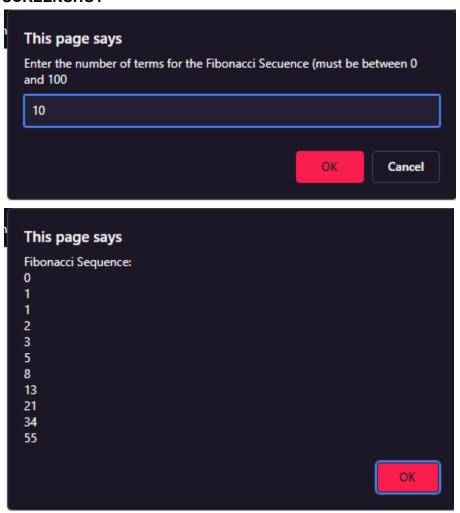(046) 471-66-07 / (046) 471-67-70 / (046) 686- 23-49
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SCREENSHOT

This page says

Enter the number of terms for the Fibonacci Secuence (must be between 0 and 100

10

OK   Cancel

This page says

Fibonacci Sequence:
0
1
1
2
3
5
8
13
21
34
55

OK

Dictionary:

- **Function** - A JavaScript function is a block of code designed to perform a particular task.
  function guessCounter() {
      counter++;

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```
    document.getElementById('counter').innerHTML = counter;
}
```
Syntax :
```
function name(parameter1, parameter2, parameter3) {
  // code to be executed
}
```
Parameter : value (a variable that holds a value to be use in the function)

```
function main() {
        //blocks of codes
}
```

- **isNan** - check if is a number
- isNan(number)
  Syntax : isNan(value)"
  Parameter : Value - is a value that may or may not hold number

```
Let number = 1;
Let value = parseInt(number);

If (isNan(value){
        alert("true");
}
```

  Output: True

- **Alert()**- display a pop-up dialog in the browser
  alert("words")
  Syntax : alert(value)
  Attribute: value - a value that holds the things to be printed

  alert("yes");

  Output: yes

- **script tag** - this is used to embed a script, can either contain a statement or a redirect to an external script file
- <script src="script.js"></script>
  Syntax : <script src="script_file_name.js"></script>

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Attribute: src (redirect the tag to an external script source)

script.js
```
function main() {
    const number= document.getElementById(number);
    console.log(number);
}
```

index.html
```
<input type="text" name="number" id="number"><br>
<button class="button" onclick="main()">show</button>
```

Output: */number that was input

- **div tag** - this tag is used to define a division or as a container in the html file
  `<div class="center">`
  Syntax : `<div></div>`
  Attributes: id, class, (gives a unique identifier for the specific division)

Index.html
```
<link rel="stylesheet" href="style.css">
<div class="random-div">
        <p>Hello world</p>
</div>
```