

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
www.cvsu.edu.ph

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 : Marcelino Villarin	Section : BSIT 3C
Assignment: FibonacciSequence	Submission Date : May 4 2024

Code :

HTML FILE

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">

  <title>Fibonacci</title>
</head>

<body>

  <script src="fnacci.js" charset="utf-8"></script>
</body>

</html>
```

JS FILE

```
function generateFibonacciSequence(terms) {
  let sequence = [];
  let firstNum = 0, secondNum = 1;

  sequence.push(firstNum);
  sequence.push(secondNum);
```

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
www.cvsu.edu.ph

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)**

```
for (let i = 2; i < terms; i++) {
    let nextNum = firstNum + secondNum;
    sequence.push(nextNum);
    firstNum = secondNum;
    secondNum = nextNum;
}

return sequence;
}

function validateUserInput(input) {
    return input !== "" && /^\d+$/.test(input) && Number.isInteger(parseInt(input)) &&
    parseInt(input) > 0 && parseInt(input) < 100;
}

function startProgram() {
    do {
        let input;
        do {
            input = prompt("Enter the number of terms in the Fibonacci sequence:");
            if (!validateUserInput(input)) {
                alert("Error: Please enter a valid integer between 1 and 99.");
            }
        } while (!validateUserInput(input));

        let terms = parseInt(input);
        let fibonacciSequence = generateFibonacciSequence(terms);

        // Display in alerts
        alert("Fibonacci sequence:\n" + fibonacciSequence.join(", "));

        // Display in console
        console.log("Fibonacci sequence:");
        console.log(fibonacciSequence.join(", "));

        // Ask user if they want to continue
        let continueProgram = confirm("Press OK to generate another sequence, or Cancel to
exit.");
```

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
www.cvsu.edu.ph

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)

```
if (!continueProgram) {  
    console.log("Exiting program.");  
    break; // Exit the loop if user cancels  
}  
} while (true); // Loop indefinitely until user chooses to exit  
}  
  
// Call the startProgram function  
startProgram();
```

SCREENSHOT

// insert photo/image/screenshot of output

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

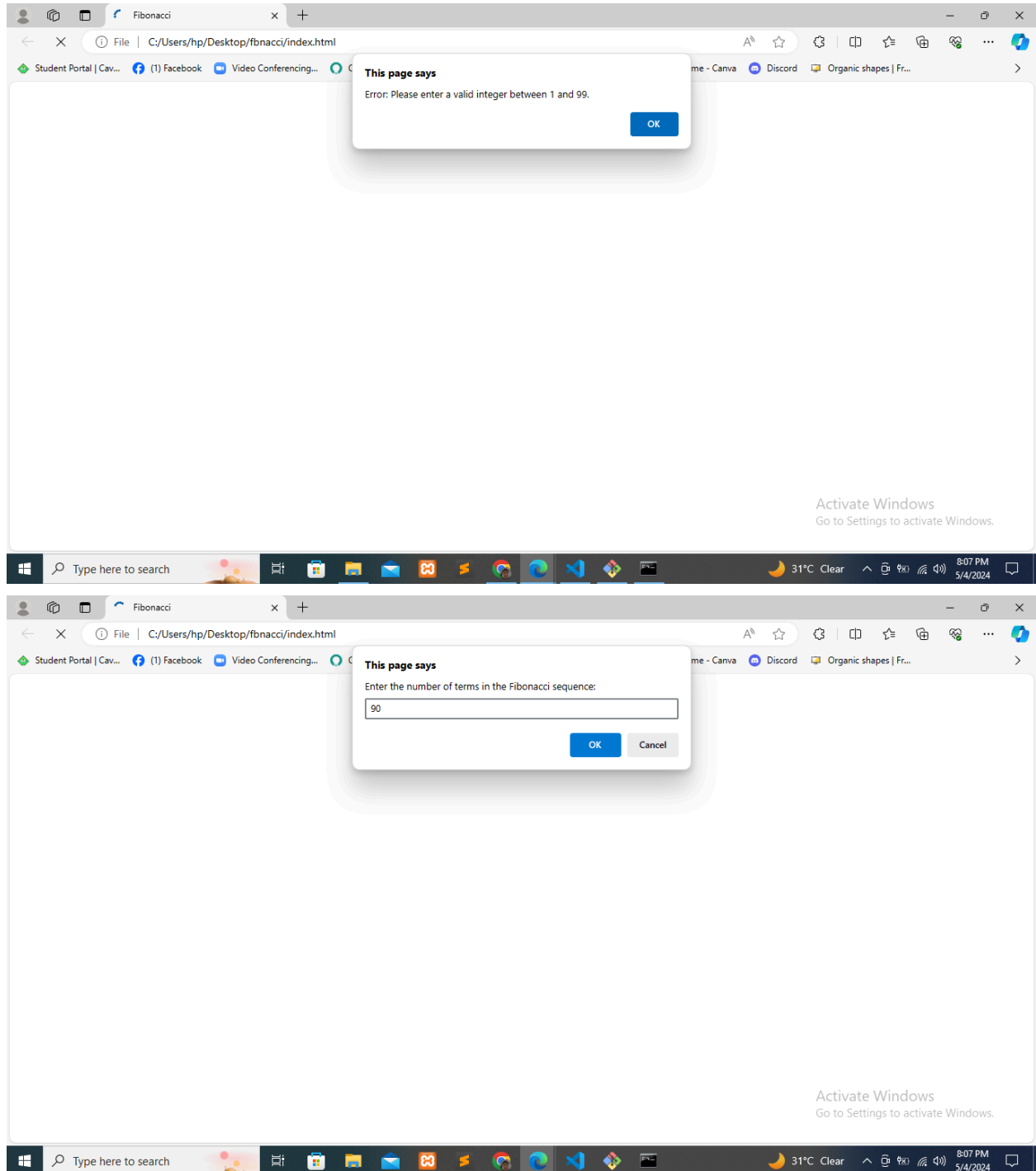
www.cvsu.edu.ph

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)



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

www.cvsu.edu.ph

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)

