6. Modules introduction, Export and Import:

<u>Task 1:</u> Create a module that exports a function, a class, and a variable.

Code:

```
export function fun(name) {
    return `Welcome ${name}`;
}

export class pavi {
    constructor(name) {
        this.name = name;
    }

    functionName() {
        return `My name is ${this.name}`;
    }
}

// A variable
export const name = "Pavi";
```

<u>Task 2:</u> Import the module in another JavaScript file and use the exported entities.

```
Code:
import { fun, pavi, name } from './Untitled-1.js';
console.log(fun(name) );
var one = new pavi("Dhanu");
console.log(one.functionName() );
console.log(name);
```

Output:

```
    Image: Tribing of the proof of the proo
```

<u>Task 3:</u> Use named exports to export multiple functions from a module.

```
Code:

export function add(a, b) {
    return a + b;
}
export function subtract(a, b) {
    return a - b;
}

export function multiply(a, b) {
    return a * b;
}
```

Task 4: Use named imports to import specific functions from a module.

Code:

```
import { add, subtract, multiply } from './Untitled-1.js';

const a = 10;
const b = 5;
console.log(`Addition: ${add(a, b)} `);
console.log(`Subtraction: ${subtract(a, b)} `);
console.log(`Multiplication: ${multiply(a, b)} `);
```

Output:

```
□ ∇ Filter Output Errors Warnings Logs Info Debug Continue Live reload enabled.

Addition: 15

Subtraction: 50

Multiplication: 50
```

<u>Task 5:</u> Use default export and import for a primary function of a module.

Code:

```
export default function add(a, b) {
   return a + b;
}
```

```
import add from './Untitled-1.js';
const result = add(5, 3);
console.log(`5 + 3 = ${result}`);
```

Output:



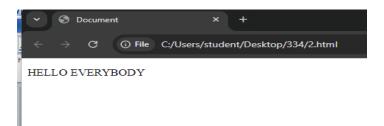
7. Browser: DOM Basics:

Task 1: Select an HTML element by its ID and change its content using JavaScript.

Code:

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

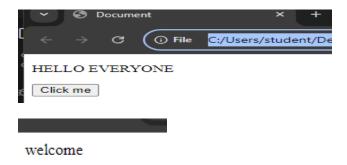
Output:



Task 2: Attach an event listener to a button, making it perform an action when clicked.

Code:

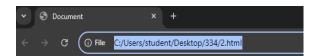
Output:



Task 3: Create a new HTML element and append it to the DOM.

Code:

Output:



HEY YOUwhat are you doing

<u>Task 4:</u> Implement a function to toggle the visibility of an element.

Code:

Output:



Task 5: Use the DOM API to retrieve and modify the attributes of an element.

Code:

Output:



DOM API Example



Change Image Attributes

DOM API Example



Change Image Attributes