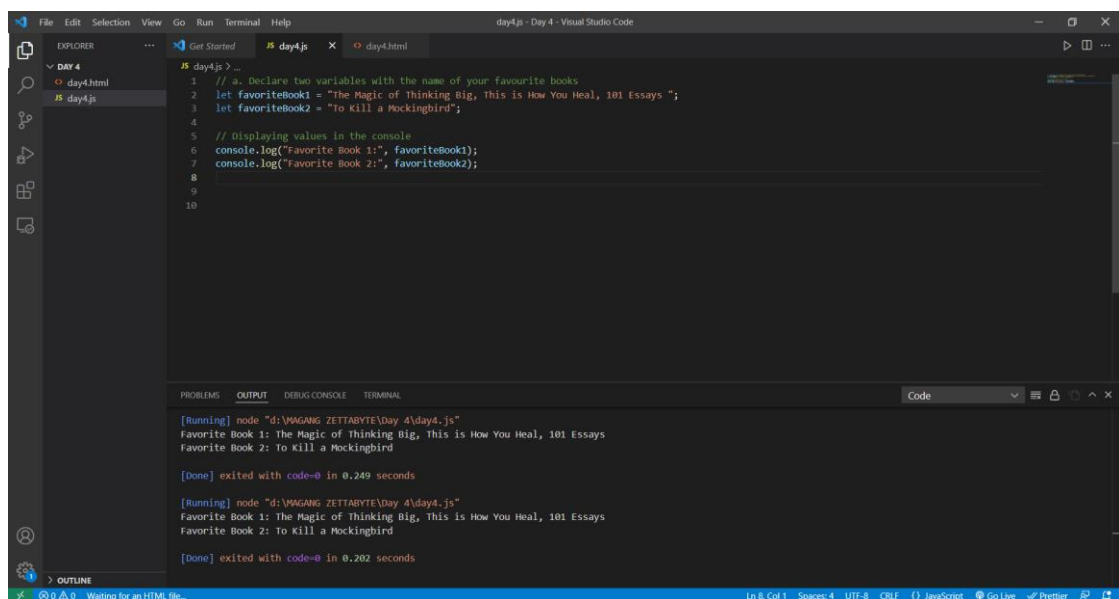


# LEARNING

1. Setup NodeJS: [https://www.w3schools.com/nodejs/nodejs\\_get\\_started.asp](https://www.w3schools.com/nodejs/nodejs_get_started.asp)
2. Variable in JavaScript. Watch course section 2 part 19 & 20:  
[Part 19](#) [Part 20](#)
3. Understanding variable in JavaScript: [https://developer.mozilla.org/en-US/docs/Web/JavaScript/Data\\_structures](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Data_structures)
4. Data type in JavaScript. Watch course section 2 part 42 - 46:  
[Part 42](#) [Part 43](#) [Part 44](#) [Part 45](#) [Part 46](#)

# TASK

1. Declare two variable with name of your favourite books



```
1 // a. Declare two variables with the name of your favourite books
2 let favoriteBook1 = "The Magic of Thinking Big, This is How You Heal, 101 Essays ";
3 let favoriteBook2 = "To Kill a Mockingbird";
4
5 // Displaying values in the console
6 console.log("Favorite Book 1:", favoriteBook1);
7 console.log("Favorite Book 2:", favoriteBook2);
8
9
10
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

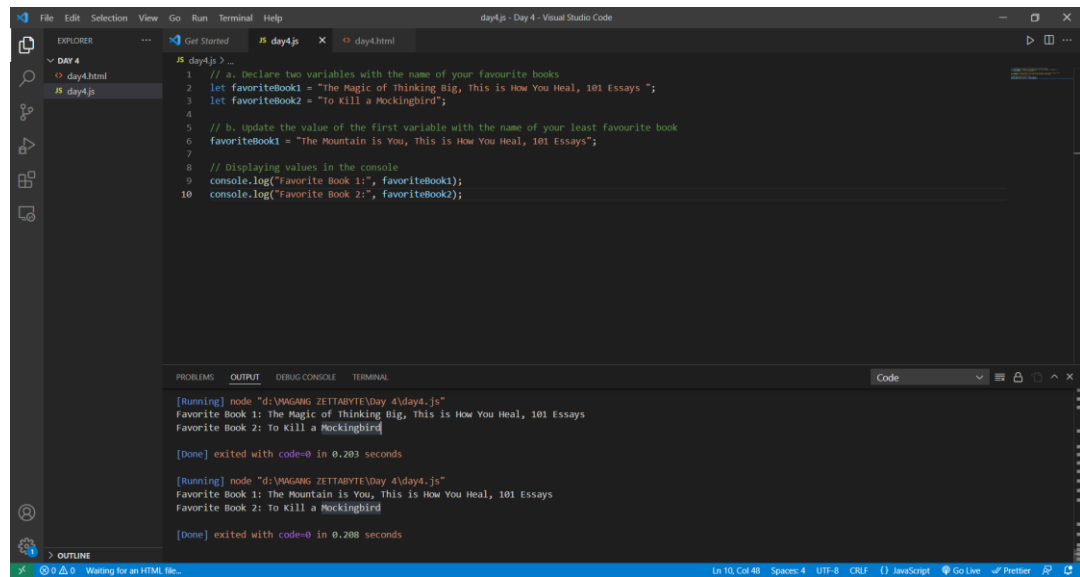
[Running] node "d:\WAGANG ZETTABYTE\Day 4\day4.js"  
Favorite Book 1: The Magic of Thinking Big, This is How You Heal, 101 Essays  
Favorite Book 2: To Kill a Mockingbird  
[Done] exited with code=0 in 0.249 seconds

[Running] node "d:\WAGANG ZETTABYTE\Day 4\day4.js"  
Favorite Book 1: The Magic of Thinking Big, This is How You Heal, 101 Essays  
Favorite Book 2: To Kill a Mockingbird  
[Done] exited with code=0 in 0.202 seconds

```
// a. Declare two variables with the name of your favourite books
let favoriteBook1 = "The Magic of Thinking Big, This is How You Heal, 101
Essays ";
let favoriteBook2 = "To Kill a Mockingbird";

// Displaying values in the console
console.log("Favorite Book 1:", favoriteBook1);
console.log("Favorite Book 2:", favoriteBook2);
```

- a. Update value of first with name your least favourite book



```
1 // a. Declare two variables with the name of your favourite books
2 let favoriteBook1 = "The Magic of Thinking Big, This is How You Heal, 101 Essays ";
3 let favoriteBook2 = "To Kill a Mockingbird";
4
5 // b. Update the value of the first variable with the name of your least favourite book
6 favoriteBook1 = "The Mountain Is You, This is How You Heal, 101 Essays";
7
8 // Displaying values in the console
9 console.log("Favorite Book 1:", favoriteBook1);
10 console.log("Favorite Book 2:", favoriteBook2);
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

[Running] node "d:\MAGANG ZETTABYTE\Day 4\day4.js"  
Favorite Book 1: The Magic of Thinking Big, This is How You Heal, 101 Essays  
Favorite Book 2: To Kill a Mockingbird  
[Done] exited with code=0 in 0.203 seconds

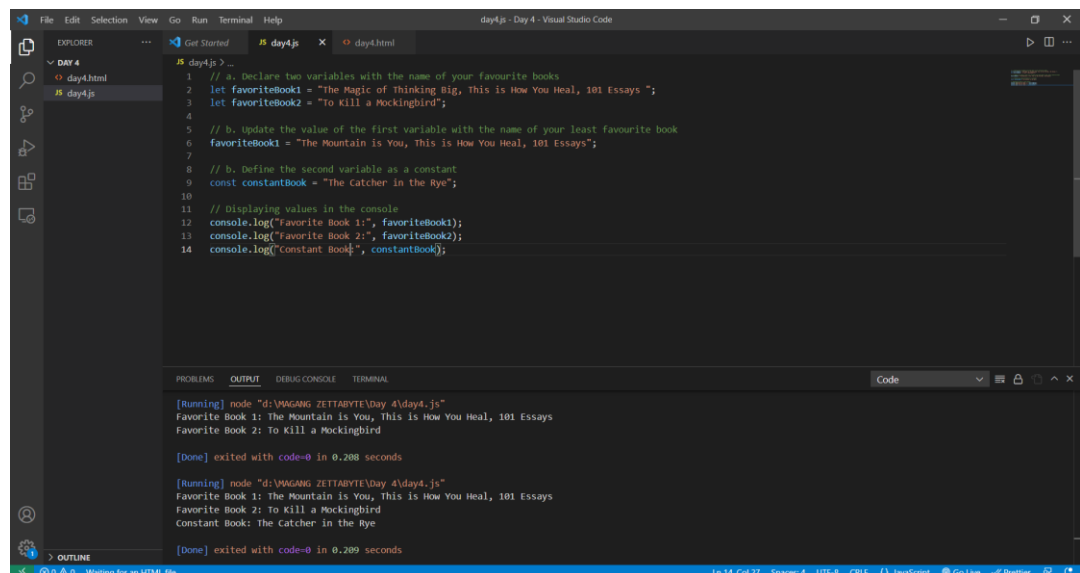
[Running] node "d:\MAGANG ZETTABYTE\Day 4\day4.js"  
Favorite Book 1: The Mountain Is You, This is How You Heal, 101 Essays  
Favorite Book 2: To Kill a Mockingbird  
[Done] exited with code=0 in 0.208 seconds

```
// a. Declare two variables with the name of your favourite books
let favoriteBook1 = "The Magic of Thinking Big, This is How You Heal, 101 Essays ";
let favoriteBook2 = "To Kill a Mockingbird";

// b. Update the value of the first variable with the name of your least favourite book
favoriteBook1 = "The Mountain is You, This is How You Heal, 101 Essays";

// Displaying values in the console
console.log("Favorite Book 1:", favoriteBook1);
console.log("Favorite Book 2:", favoriteBook2);
```

- b. Define second variable as constant and try update the value



```
1 // a. Declare two variables with the name of your favourite books
2 let favoriteBook1 = "The Magic of Thinking Big, This is How You Heal, 101 Essays ";
3 let favoriteBook2 = "To Kill a Mockingbird";
4
5 // b. Update the value of the first variable with the name of your least favourite book
6 favoriteBook1 = "The Mountain Is You, This is How You Heal, 101 Essays";
7
8 // b. Define the second variable as a constant
9 const constantBook = "The Catcher in the Rye";
10
11 // Displaying values in the console
12 console.log("Favorite Book 1:", favoriteBook1);
13 console.log("Favorite Book 2:", favoriteBook2);
14 console.log("Constant Book:", constantBook);
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

[Running] node "d:\MAGANG ZETTABYTE\Day 4\day4.js"  
Favorite Book 1: The Mountain Is You, This is How You Heal, 101 Essays  
Favorite Book 2: To Kill a Mockingbird  
[Done] exited with code=0 in 0.208 seconds

[Running] node "d:\MAGANG ZETTABYTE\Day 4\day4.js"  
Favorite Book 1: The Mountain Is You, This is How You Heal, 101 Essays  
Favorite Book 2: To Kill a Mockingbird  
Constant Book: The Catcher in the Rye  
[Done] exited with code=0 in 0.209 seconds

```

// a. Declare two variables with the name of your favourite books
let favoriteBook1 = "The Magic of Thinking Big, This is How You Heal, 101 Essays ";
let favoriteBook2 = "To Kill a Mockingbird";

// b. Update the value of the first variable with the name of your least favourite book
favoriteBook1 = "The Mountain is You, This is How You Heal, 101 Essays";

// b. Define the second variable as a constant
const constantBook = "The Catcher in the Rye";

// Displaying values in the console
console.log("Favorite Book 1:", favoriteBook1);
console.log("Favorite Book 2:", favoriteBook2);
console.log("Constant Book:", constantBook);

```

The screenshot shows the Visual Studio Code interface with a file named `day4.js` open. The code in the editor is as follows:

```

1 // a. Declare two variables with the name of your favourite books
2 let favoriteBook1 = "The Magic of Thinking Big, This is How You Heal, 101 Essays ";
3 let favoriteBook2 = "To Kill a Mockingbird";
4
5 // b. Update the value of the first variable with the name of your least favourite book
6 favoriteBook1 = "The Mountain is You, This is How You Heal, 101 Essays";
7
8 // b. Define the second variable as a constant
9 const constantBook = "The Catcher in the Rye";
10
11 //try update the value
12 constantBook = "The Catcher";
13
14 // Displaying values in the console
15 console.log("Favorite Book 1:", favoriteBook1);
16 console.log("Favorite Book 2:", favoriteBook2);
17 console.log("Constant Book:", constantBook);

```

The terminal output shows the following:

```

[Running] node "d:\VAGANG ZETTABYTE\Day 4\day4.js"
d:\VAGANG ZETTABYTE\Day 4\day4.js:12
constantBook = "The Catcher";
               ^
TypeError: Assignment to constant variable.
    at Object.<anonymous> (d:\VAGANG ZETTABYTE\Day 4\day4.js:12:14)
    at Module._compile (internal/modules/cjs/loader.js:781:30)
    at Object.Module._extensions..js (internal/modules/cjs/loader.js:789:10)
    at Module.load (internal/modules/cjs/loader.js:593:32)
    at tryModuleLoad (internal/modules/cjs/loader.js:593:12)
    at Function.Module._load (internal/modules/cjs/loader.js:585:3)

```

```

// a. Declare two variables with the name of your favourite books
let favoriteBook1 = "The Magic of Thinking Big, This is How You Heal, 101 Essays ";
let favoriteBook2 = "To Kill a Mockingbird";

// b. Update the value of the first variable with the name of your least favourite book
favoriteBook1 = "The Mountain is You, This is How You Heal, 101 Essays";

// b. Define the second variable as a constant
const constantBook = "The Catcher in the Rye";

//try update the value
constantBook = "The Catcher";

// Displaying values in the console

```

```

console.log("Favorite Book 1:", favoriteBook1);
console.log("Favorite Book 2:", favoriteBook2);
console.log("Constant Book:", constantBook);

```

2. Concat value from variables task number 1 into new variable

The screenshot shows the Visual Studio Code editor with a file named `day4.js` open. The code in the file is as follows:

```

1 let favoriteBook1 = "The Magic of Thinking Big, This is How You Heal, 101 Essays ";
2 let favoriteBook2 = "To Kill a Mockingbird";
3
4 // a. Update the value of the first variable with the name of your least favourite book
5 favoriteBook1 = "The Mountain is You, This is How You Heal, 101 Essays";
6
7 // b. Define the second variable as a constant
8 const constantBook = "The Catcher in the Rye";
9
10 // Declare more variables with other data types and values
11 let numberOfPages = 300;
12 let isAvailable = true;
13 let publishingYear1 = [2018, 2020, 2022];
14 let publishingYear2 = [2021];
15 let ratingsBook1 = [4.5, 5, 3.8];
16 let ratingsBook2 = [4.7];
17 let combinedBook = favoriteBook1 + " dan " + favoriteBook2;
18
19 // Displaying values in the console
20 console.log("Favorite Book 1:", favoriteBook1);
21 console.log("Favorite Book 2:", favoriteBook2);
22 console.log("Combined Book:", combinedBook);
23 console.log("Constant Book:", constantBook);

```

The terminal output shows the following results:

```

[Running] node "d:\MAGANG ZETTABYTE\day 4\day4.js"
Favorite Book 1: The Mountain is You, This is How You Heal, 101 Essays
Favorite Book 2: To Kill a Mockingbird
Combined Book: The Mountain is You, This is How You Heal, 101 Essays dan To Kill a Mockingbird
Constant Book: The Catcher in the Rye
Number of Pages: 300
Is Available: true
Publishing Year Book 1: [ 2018, 2020, 2022 ]
Publishing Year Book 2: [ 2021 ]
Ratings Book 1: [ 4.5, 5, 3.8 ]
Ratings Book 2: [ 4.7 ]
[Done] exited with code=0 in 0.339 seconds

```

```

// Declare two variables with the name of your favourite books
let favoriteBook1 = "The Magic of Thinking Big, This is How You Heal,
101 Essays ";
let favoriteBook2 = "To Kill a Mockingbird";

// a. Update the value of the first variable with the name of your
least favourite book
favoriteBook1 = "The Mountain is You, This is How You Heal, 101
Essays";

// b. Define the second variable as a constant
const constantBook = "The Catcher in the Rye";

// Declare more variables with other data types and values
let numberOfPages = 300;
let isAvailable = true;
let publishingYear1 = [2018, 2020, 2022];
let publishingYear2 = [2021];
let ratingsBook1 = [4.5, 5, 3.8];
let ratingsBook2 = [4.7];
let combinedBook = favoriteBook1 + " dan " + favoriteBook2;

// Displaying values in the console
console.log("Favorite Book 1:", favoriteBook1);
console.log("Favorite Book 2:", favoriteBook2);
console.log("Combined Book:", combinedBook);
console.log("Constant Book:", constantBook);

```

```
console.log("Number of Pages:", numberOfPages);  
console.log("Is Available:", isAvailable);  
console.log("Publishing Year Book 1:", publishingYear1);  
console.log("Publishing Year Book 2:", publishingYear2);  
console.log("Ratings Book 1:", ratingsBook1);  
console.log("Ratings Book 2:", ratingsBook2);
```

Note:

Try declare more variable using other data type with dynamic value and primitive value