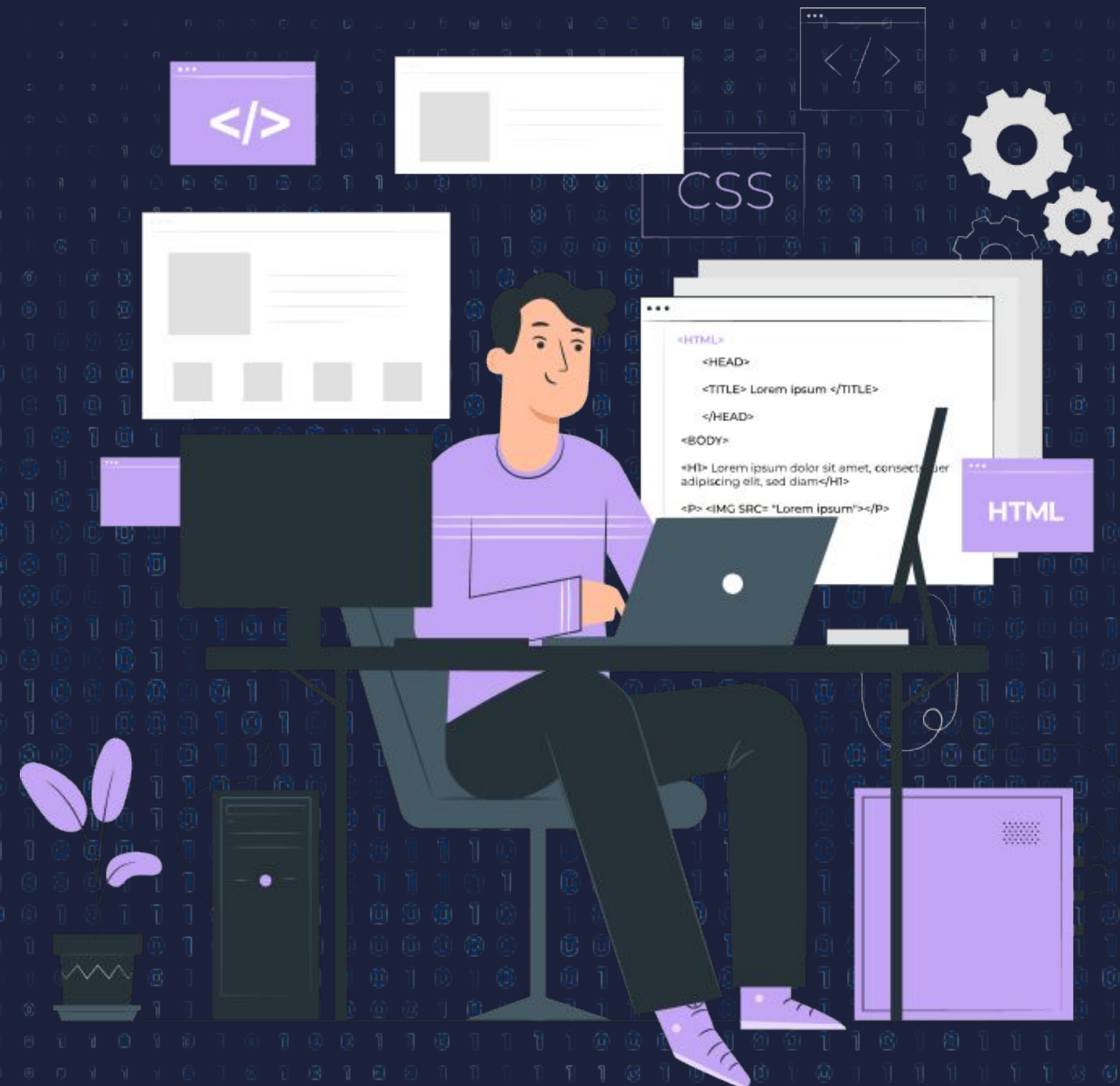




Function with unlimited number of parameters





Lecture CheckList

- Function with an unlimited number of parameters.
- The arguments keyword.
- Implementation.
- Code Walk Through.



Function with an unlimited number of parameters

From the previous lectures, we are clear with the concept of function declarations, parameters, arguments, and function calls.

In this lecture, we will be looking at a situation where an unlimited number of parameters are passed as parameters to the function. As a developer what are the options available to handle this situation?

Assume a condition where we want to find the sum of all the numbers passed as a parameter to the function. In this case, as we have no idea of the number of parameters. So, we cannot make use of what we have learned in previous lectures.



The arguments keyword.

In JavaScript, the arguments keyword refers to an object that contains all the arguments passed to a function.

It is similar to an array, but not an actual array. We can make use of the “.length” method to know how many parameters are passed.

The arguments object is available within all function bodies and can be used to access the values of the arguments passed to the function.



Implementation

// Function declaration

```
function sumOfAllParameters() {  
  let sum = 0;  
  for (var i = 0; i < arguments.length; i++) sum += arguments[i];  
  return sum;  
}
```

// Function call

```
let result = sumOfAllParameters(1, 2, 3, 4, 5);  
console.log(result);
```



Code Walk Through.

The function “sumOfAllParameters” accepts an unlimited number of parameters. The function uses the arguments object to access all the parameters passed to it, regardless of the number of parameters. Inside the function, a for loop iterates through the arguments object, adding each value to a variable sum. The final value of the sum variable is returned as the result of the function.

When the function is called, multiple arguments are passed to the function, in this case, it will be 1, 2, 3, 4, 5, the function will add all these numbers and return the total which is 15 and this value gets stored in the variable result and then gets printed to the console using console.log(result).

It is not recommended to use the arguments object, as it is not as efficient as declaring the function parameters.



▶ THANK YOU ◀