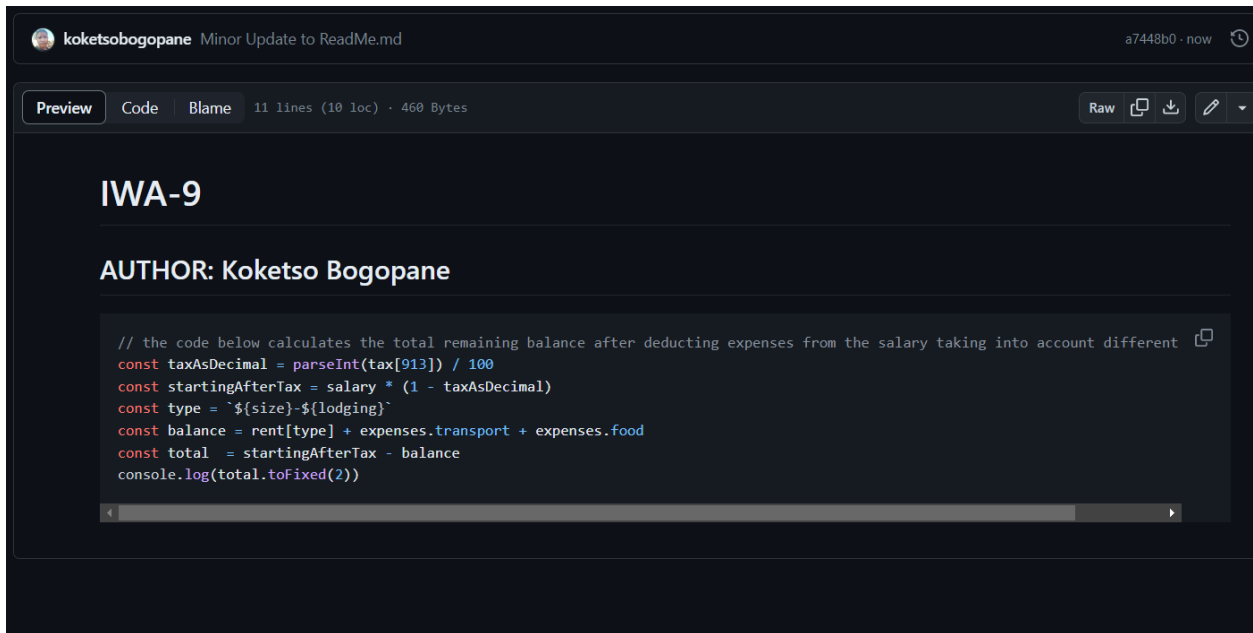


DWA_03.4 Knowledge Check_DWA3.1

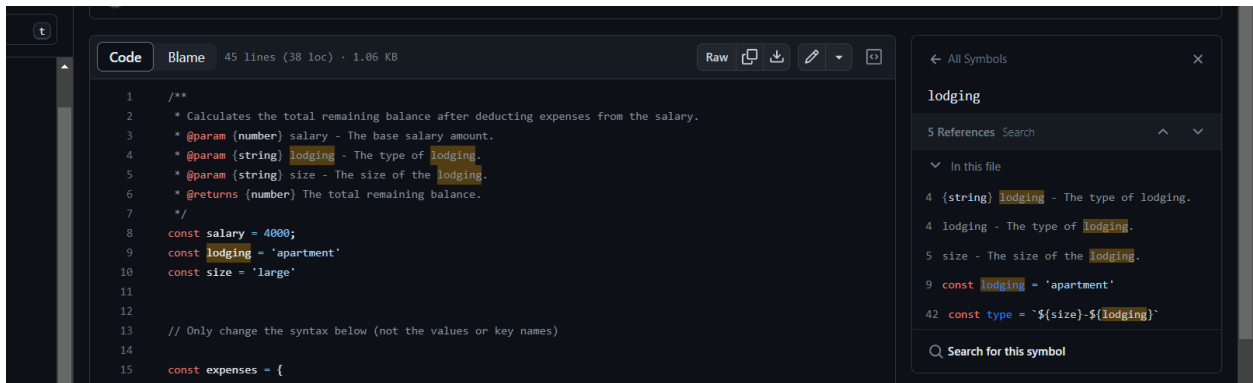
1. Please show how you applied a Markdown File to a piece of your code.



The screenshot shows a GitHub repository for 'koketsobogopane' with a file named 'IWA-9'. The file is a Markdown document containing a code block. The code is a JavaScript snippet that calculates the total remaining balance after deducting expenses from a salary, taking into account different taxes and expenses. The code is as follows:

```
// the code below calculates the total remaining balance after deducting expenses from the salary taking into account different
const taxAsDecimal = parseInt(tax[913]) / 100
const startingAfterTax = salary * (1 - taxAsDecimal)
const type = `${size}-${lodging}`
const balance = rent[type] + expenses.transport + expenses.food
const total = startingAfterTax - balance
console.log(total.toFixed(2))
```

2. Please show how you applied JSDoc Comments to a piece of your code.



The screenshot shows a code editor with a JavaScript file. The code includes JSDoc comments for a function that calculates the total remaining balance. The JSDoc comments are as follows:

```
1 /**
2  * Calculates the total remaining balance after deducting expenses from the salary.
3  * @param {number} salary - The base salary amount.
4  * @param {string} lodging - The type of lodging.
5  * @param {string} size - The size of the lodging.
6  * @returns {number} The total remaining balance.
7  */
8 const salary = 4000;
9 const lodging = 'apartment'
10 const size = 'large'
11
12
13 // Only change the syntax below (not the values or key names)
14
15 const expenses = {
16   food: 50,
17   transport: 10,
18   ...}
```

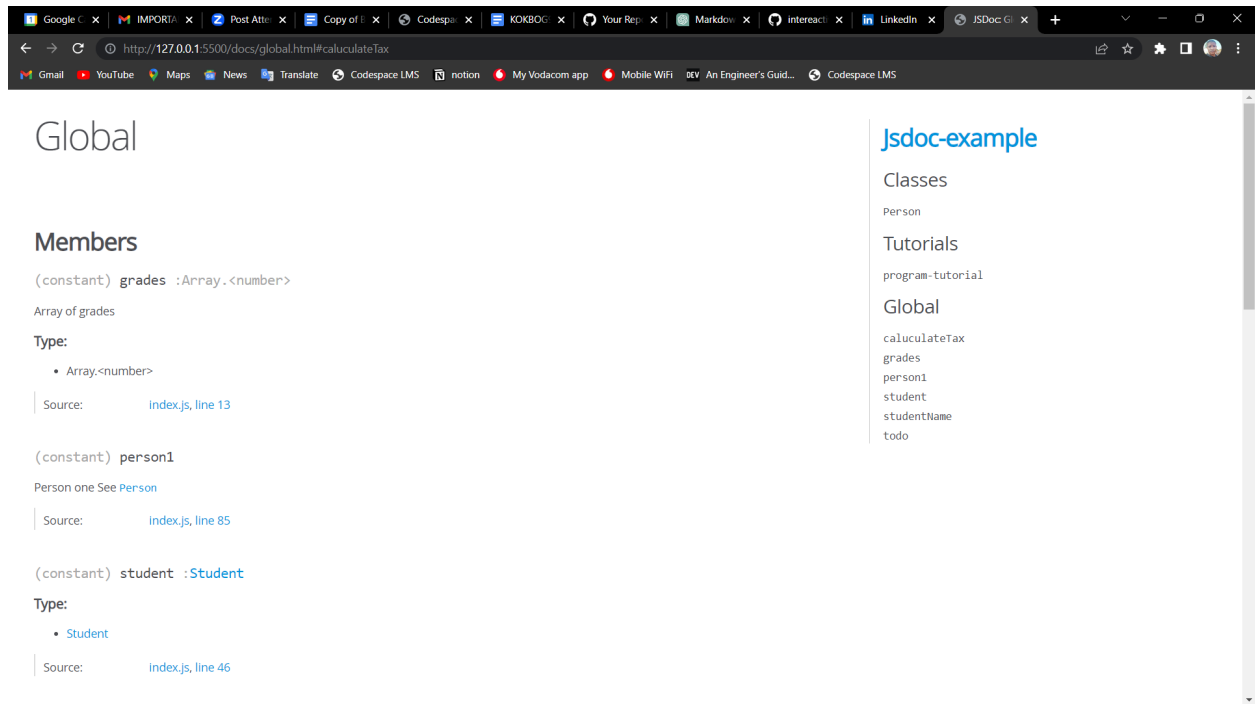
On the right hand side, the you can see the documentation made with jDoc.

3. Please show how you applied the @ts-check annotation to a piece of your code.

```
1 // @ts-check You, 1 minute ago • Uncommitted changes
2
3 const leoName = 'Leo Musvaire'
4 const leoNumber = '2'
5 const leoStreet = 'Church St.'
6 const leoPostal = '3105'
7 const leoBalance = '-10'
8
9 const sarahName = 'Sarah '
10 const sarahSurname = 'Kleinhans'
11 const sarahBalance = '-4582.21000111'
12 const sarahNumber = '13'
13 const sarahStreet = 'William Close'
14 const sarahPostal = '0310'
15
16 // Only change below this line
17 /**
18  * An object that stores the necessary info of a customer
19  * @typedef {object} customer
20  * @property {string} name - Customer Name
21  * @property {Function} balance -
22  * @property {string} accessId - Uniquely generated id
23  * @property {number| string} [age] - the age of the customer
24  * @property {Object} address - storage for the customers provided address
25  * @property {string} address.number - the number
26  * @property {string} address.street - the name of the street of the customer
27  * @property {string} address.postalCode - the postal code of the customer
28  */
29
30 /**
31  * @type {customer}
32  */
33 const leo = {
34   name: leoName ,
35   balance : parseFloat(-1 * leoBalance),
36   accessId : '47afb389-8014-4d0b-aff3-e40203d2107f',
37   age : 24,
38   address : {
```

“// @ts-check”, on the above code shows that the property of customer(leo), which is balance is not a function as documented so it gives an error.

4. As a BONUS, please show how you applied any other concept covered in the 'Documentation' module.



The above screenshot is a visual representation of the documentation made on my main script file. JsDoc is a structured way to be able to see you documentation.
