

# DWA\_03.4 Knowledge Check\_DWA3.1

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

The screenshot displays a web browser window with multiple tabs open, including 'Codespace LMS', 'JSDoc: Home', 'Tally Count', 'NelsonMALGAS/DWA', 'Dynamic\_Web\_Apps', 'Tally Counter App', and 'NelsonMALGAS (NelsonMALGAS)'. The active tab shows the GitHub profile of NelsonMALGAS. The profile includes a circular profile picture of a man in a suit, the name 'Nelson Zongezile Malgas', and the username 'NelsonMALGAS'. Below the name are links to 'Edit profile', '0 followers', and '1 following'. Contact information includes an email 'zmalgas69@gmail.com', a website 'https://www.freecodecamp.org/NelsonMALGAS', a Twitter link 'https://twitter.com/MalgasZakes1?t=LINT0NfCtgGXUkkGEVQV\_g8s=09', and a LinkedIn link 'in/zongezile-nelson-malgas-58b194b2'. A section titled 'Achievements' shows a GitHub logo. The main content area displays the 'README.md' file with the following text:

**Hi there!!!**

Welcome to my GitHub profile! My name is **Nelson Zongezile Malgas**, and I'm currently a software engineering student at [CodeSpace Academy](#).

My passion for coding and software development has led me to pursue this exciting career path, and I'm thrilled to be learning and growing every day. So far, I've gained experience in HTML, CSS, and JavaScript, and I'm eager to delve into new technologies like GraphQL, Node.js, Next.js, Git, and Netlify. I believe that keeping up with the latest tools and trends in software development is essential for staying competitive and producing high-quality work.

As you browse my GitHub repositories, you'll see that I'm constantly working on new projects and refining my skills. I'm always looking for opportunities to collaborate with others and learn from their expertise, so please feel free to reach out if you'd like to work together on something.

When I'm not coding, you can find me exploring the great outdoors, playing video games, or reading up on the latest developments in technology and software engineering. I'm excited about the future of this field and the many possibilities it holds, and I can't wait to see where my career takes me.

Thank you for taking the time to learn more about me, and I look forward to connecting with you on GitHub!

Programming Skills :

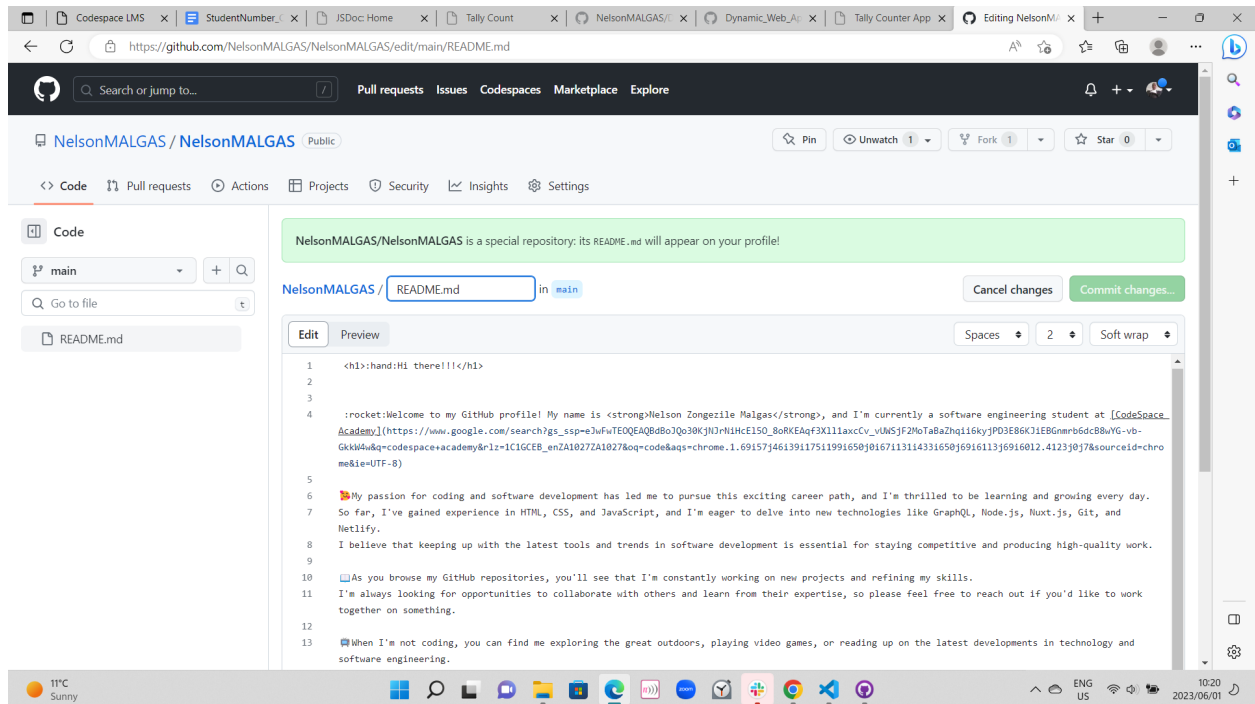
HTML CSS JavaScript

**Nelson Zongezile Malgas' GitHub Stats**

★ Total Stars Earned:	0
🕒 Total Commits (2023):	248
🔧 Total PRs:	2

The browser's taskbar at the bottom shows the system clock as 08:44 on 2023/06/01, with a weather widget indicating 8°C and 'Sunny'.

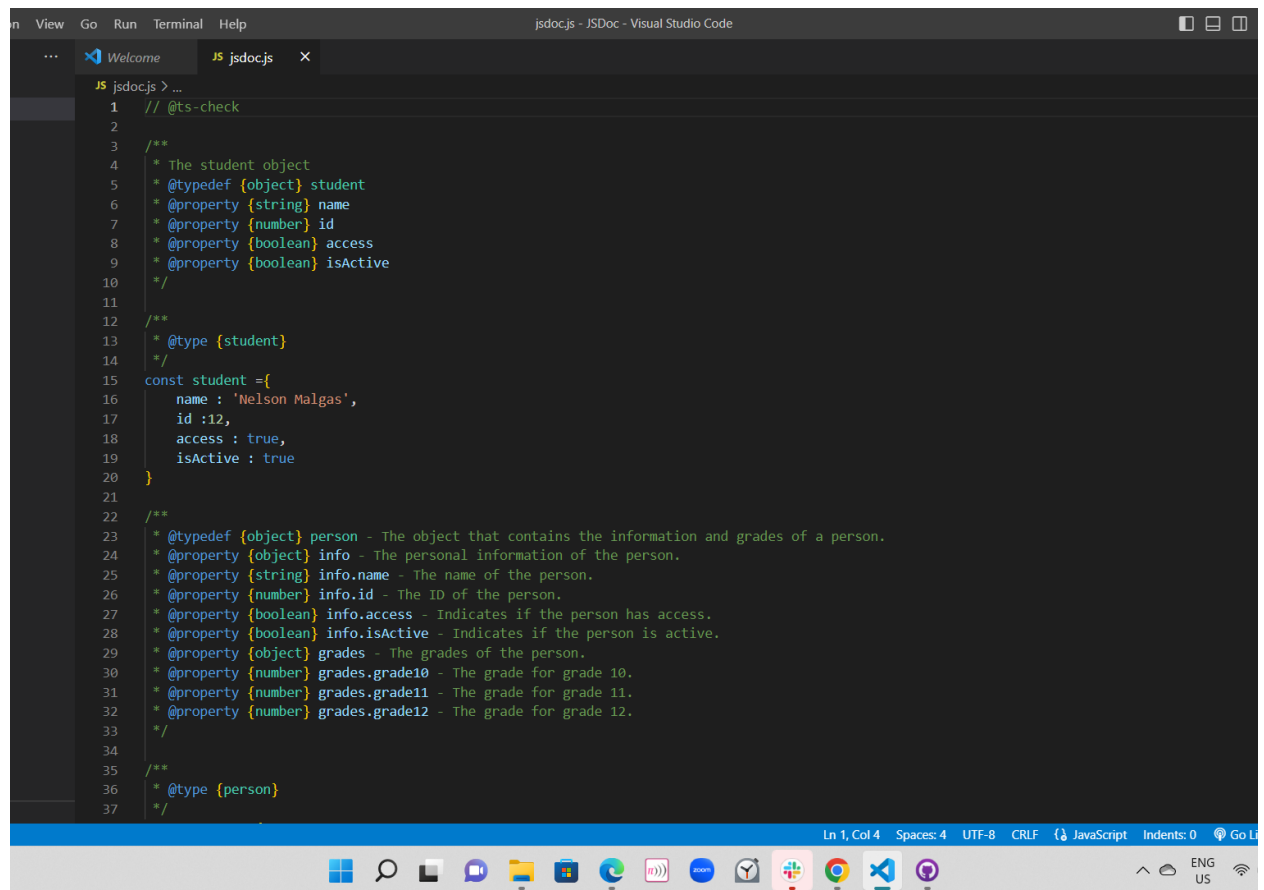
The above is how my readMe file looks like



This is how my markdown looks like when it is raw

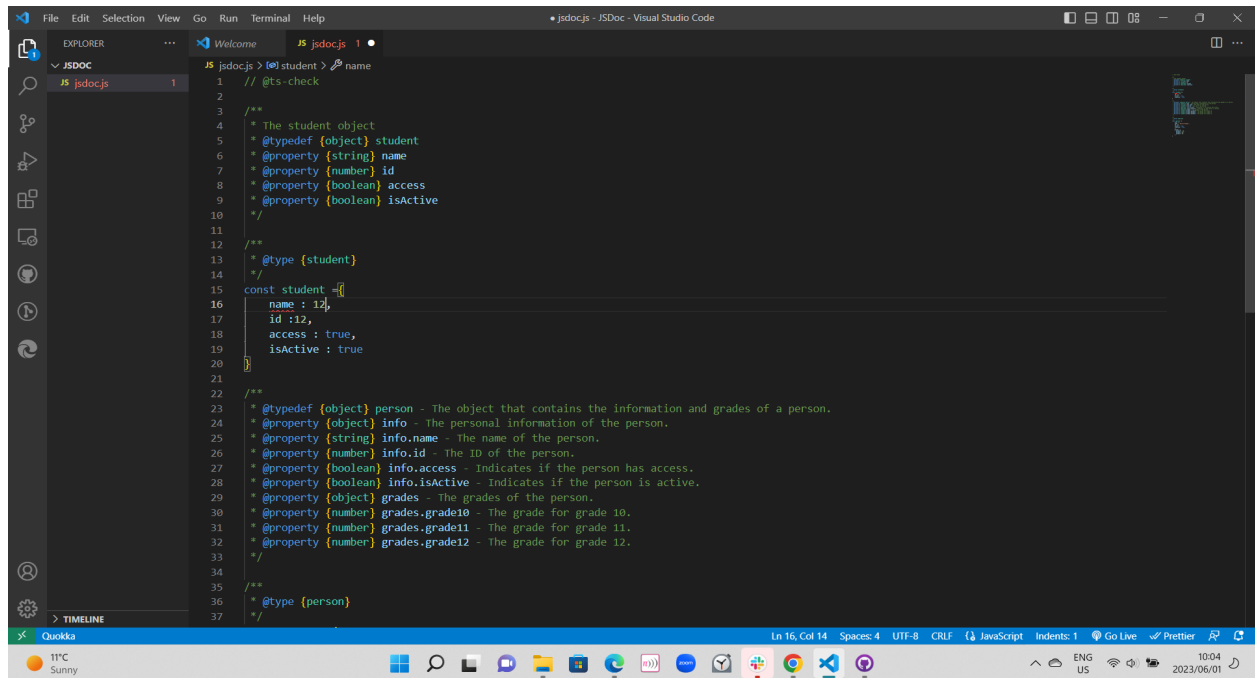
## 2. Please show how you applied JSDoc Comments to a piece of your code.

Below is an example of how I applied JSDoc comments to a piece of code :



```
1 // @ts-check
2
3
4 /**
5  * The student object
6  * @typedef {object} student
7  * @property {string} name
8  * @property {number} id
9  * @property {boolean} access
10 * @property {boolean} isActive
11 */
12
13 /**
14 * @type {student}
15 */
16 const student = {
17   name : 'Nelson Malgas',
18   id :12,
19   access : true,
20   isActive : true
21 }
22
23 /**
24 * @typedef {object} person - The object that contains the information and grades of a person.
25 * @property {object} info - The personal information of the person.
26 * @property {string} info.name - The name of the person.
27 * @property {number} info.id - The ID of the person.
28 * @property {boolean} info.access - Indicates if the person has access.
29 * @property {boolean} info.isActive - Indicates if the person is active.
30 * @property {object} grades - The grades of the person.
31 * @property {number} grades.grade10 - The grade for grade 10.
32 * @property {number} grades.grade11 - The grade for grade 11.
33 * @property {number} grades.grade12 - The grade for grade 12.
34 */
35
36 /**
37 * @type {person}
38 */
```

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



“// @ts-check” is picking up the error on {name} because {name} is documented as a string and now {name} is a number hence the red underlining on {name}

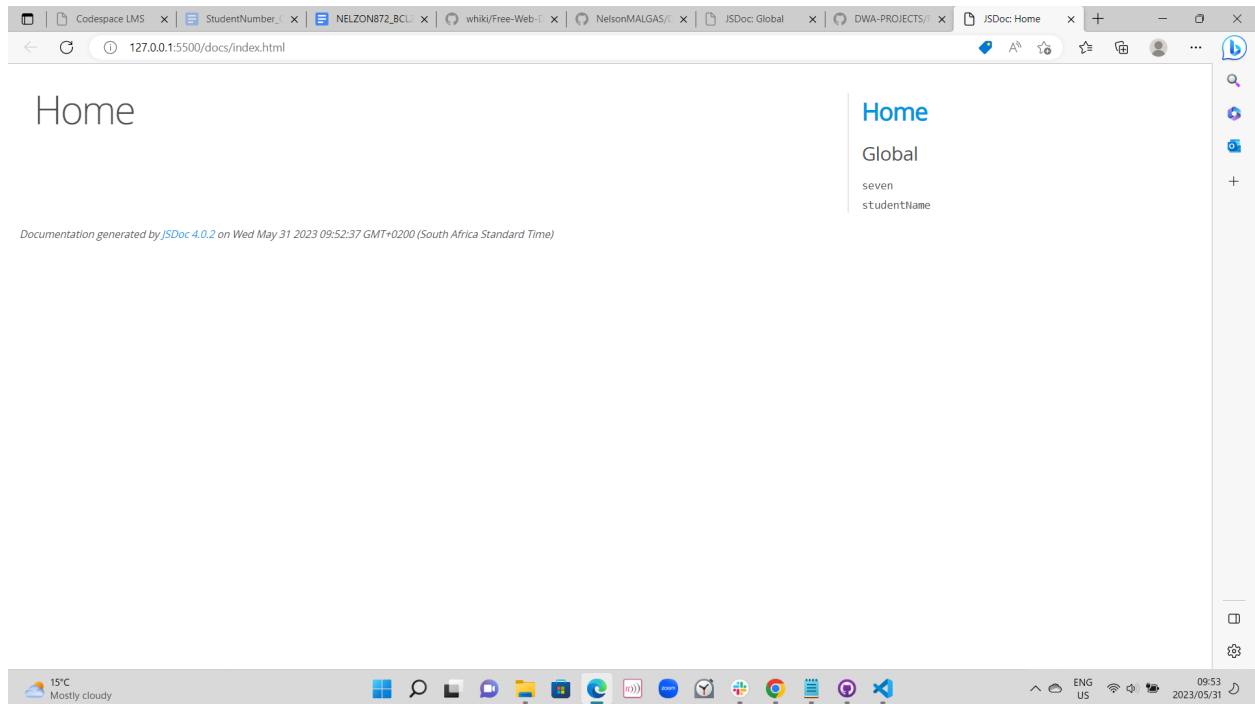
4. As a BONUS, please show how you applied any other concept covered in the 'Documentation' module.

```
1 // @ts-check
2 /**
3  * student name and surname
4  * @type {string}
5  */
6
7
8 const studentName = 'John Rambo'
9 /**
10  * seven const
11  * @type {string}
12  */
13
14 const seven = '7'
15 /**
16  * walking
17  * @typedef {Function} walk -This is a walking function
18  */
19 const walk = ()=>{
20   console.log('walking')
21 }
22 /**
23  * sitting
24  * @typedef {string} -sitting
25  */
26 const sit = 'sitting'
27
28
29 /**
30  * Obj object
31  * @typedef {object} obj
32  * @prop {string} name
33  * @prop {string} surname
34  * @prop {number | string} age
35  * @prop {number} id
36  * @prop {boolean} active
37  */
```

In the above code snippet i was doing a step by step coding along with the JSDoc crash course from the LMS where i created the studentName constant and other variable

```
PS C:\Users\softwaredeveloper8\Documents\JSDOC_EXAMPLE> npm run doc
> jsdoc_example@1.0.0 doc
> jsdoc -c jsdoc.json
PS C:\Users\softwaredeveloper8\Documents\JSDOC_EXAMPLE>
```

In the terminal is where i run the code (the circled section)



The above is the document after running the code snippets