

DWA_03.4 Knowledge Check_DWA3.1

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

```
## Challenge Topics 🎯  
The challenges cover a range of fundamental JavaScript topics, including:  
  
- Variables and data types 💡  
- Operators and expressions +  
- Conditional statements ?  
- Loops 🔄  
- Functions 🧩
```

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

```
/**  
 * Represents the first name of the user.  
 * @type {string}  
 */  
const user = 'John';  
console.log(user)
```

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

```
//@ts-check  
/**  
 * Represents the first name of the user. */
```

```
* @type {string}
*/
const user = 'John';
console.log(user)
```

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

```
//Returns number of days in the current month
/**
Returns the number of days in a given month.
@param {Date} date - The input date.
@returns {number} - The number of days in the month of the given date.
*/
const getDaysInMonth = (date) => {
  const year = date.getFullYear(); // Get year as a four-digit number
  (yyyy) - Extract the year from the date
  const month = date.getMonth() + 1; // Extract the month from the date +
  1 to get the actual month
  return new Date(year, month, 0).getDate(); // Create a new date object
  for the last day of the given month and year, then extract the day of the
  month (i.e., the number of days in the month)
};
```
