DWA_03.4 Knowledge Check_DWA3.1

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

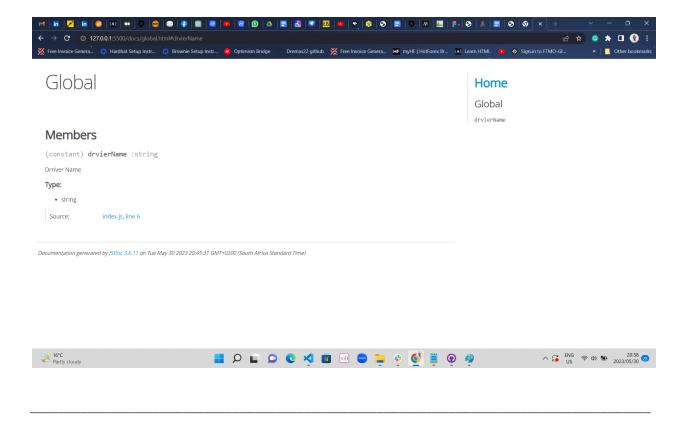
```
# Maxi taxi App
Our Maxi Taxi App aims to enhance the transportation ecosystem,
bringing convenience, efficiency, and reliability to both drivers and
commuters. Experience a seamless ride-hailing experience, eliminate
the need for hand signals, and effortlessly connect with nearby maxi
taxis.
- [Maxi taxi App](<u>#maxi-taxi-app</u>)
  - [Features:] (#features)
  - [Requirements:] (#requirements)
 [Getting Started:] (#getting-started)
## Features:
    User firendly
    Reliable
     Productive
## Requirements:
 An IDE platform [Visual Studio
Code] (https://code.visualstudio.com/) .
Basic [HTML, CSS and
JavaScript] (https://developer.mozilla.org/en-US/docs/Learn)
You can use browser like [Chrome
Browser] (<a href="https://www.google.com/chrome">https://www.google.com/chrome</a>)
# Getting Started:
```

```
    Clone the repository: git Clone
    Run a localhost server and open
    DWA3-1.md
    Open - [Maxi taxi App] (#maxi-taxi-app)

            [Features:] (#features)
            [Requirements:] (#requirements)
            [Getting Started:] (#getting-started)
```

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

```
/**
  * Drriver Name
  * @type {string}
  */
const drvierName = "Tshepo Masilo";
```



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

```
// @ts-check

/**
  * Array of Maxi taxis registered on the app
  * @param {Array} arrayMaxiTaxis
  */
const arrayMaxiTaxis = [maxi1, maxi2, maxi3]
```

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

```
* Compound interst module
 * @module compound interest formula
 * Calculates the future value using the compound interest formula.
 * @param {number} principal - The principal amount (initial
 * @param {number} interestRate - The annual interest rate (expressed
as a decimal).
* @param {number} compoundingPeriods - The number of compounding
periods per year.
 * @param {number} years - The duration of the investment in years.
* @returns {number} The future value after interest.
function calculateCompoundInterest(principal, interestRate,
compoundingPeriods, years) {
   const n = compoundingPeriods;
   const t = years;
   const A = principal * Math.pow(1 + interestRate / n, n * t);
   return A;
 // Example usage
 const principalAmount = 1000; // $1000 initial investment
  const annualInterestRate = 0.05; // 5% annual interest rate
  const compoundingPeriodsPerYear = 12; // Compounded monthly
  const investmentDurationYears = 5; // 5 years
 const futureValue = calculateCompoundInterest(
```

```
principalAmount,
annualInterestRate,
compoundingPeriodsPerYear,
investmentDurationYears
);
```

Module: compound interest formula

Compound interst module

Source: compound-interest-formula.js, line 1

Methods

 $(inner)\ calculate Compound Interest (principal,\ interest Rate,\ compounding Periods,\ years) \rightarrow \{number\}$

Calculates the future value using the compound interest formula.

Parameters:

Name	Туре	Description
principal	number	The principal amount (initial investment).
interestRate	number	The annual interest rate (expressed as a decimal).
compoundingPeriods	number	The number of compounding periods per year.

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Modules

compound interest formula

Global

arrayMaxiTaxis driverName