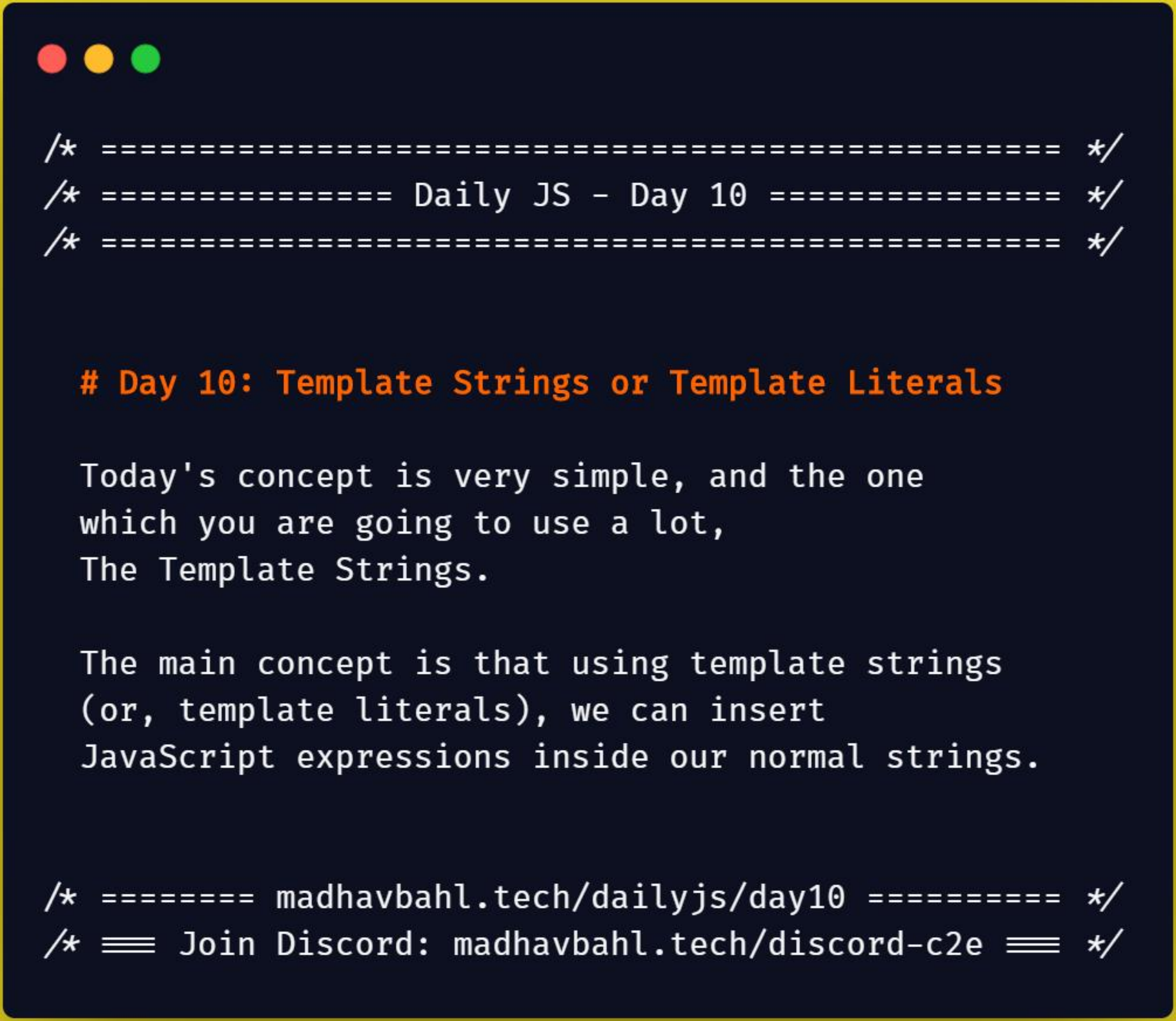
THE LEAN PROGRAMMER | CodeTo Express

Day 10, Today's Topic

Template Literals

DAILY JS



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  # Day 10: Template Strings or Template Literals

  Today's concept is very simple, and the one
  which you are going to use a lot,
  The Template Strings.

  The main concept is that using template strings
  (or, template literals), we can insert
  JavaScript expressions inside our normal strings.


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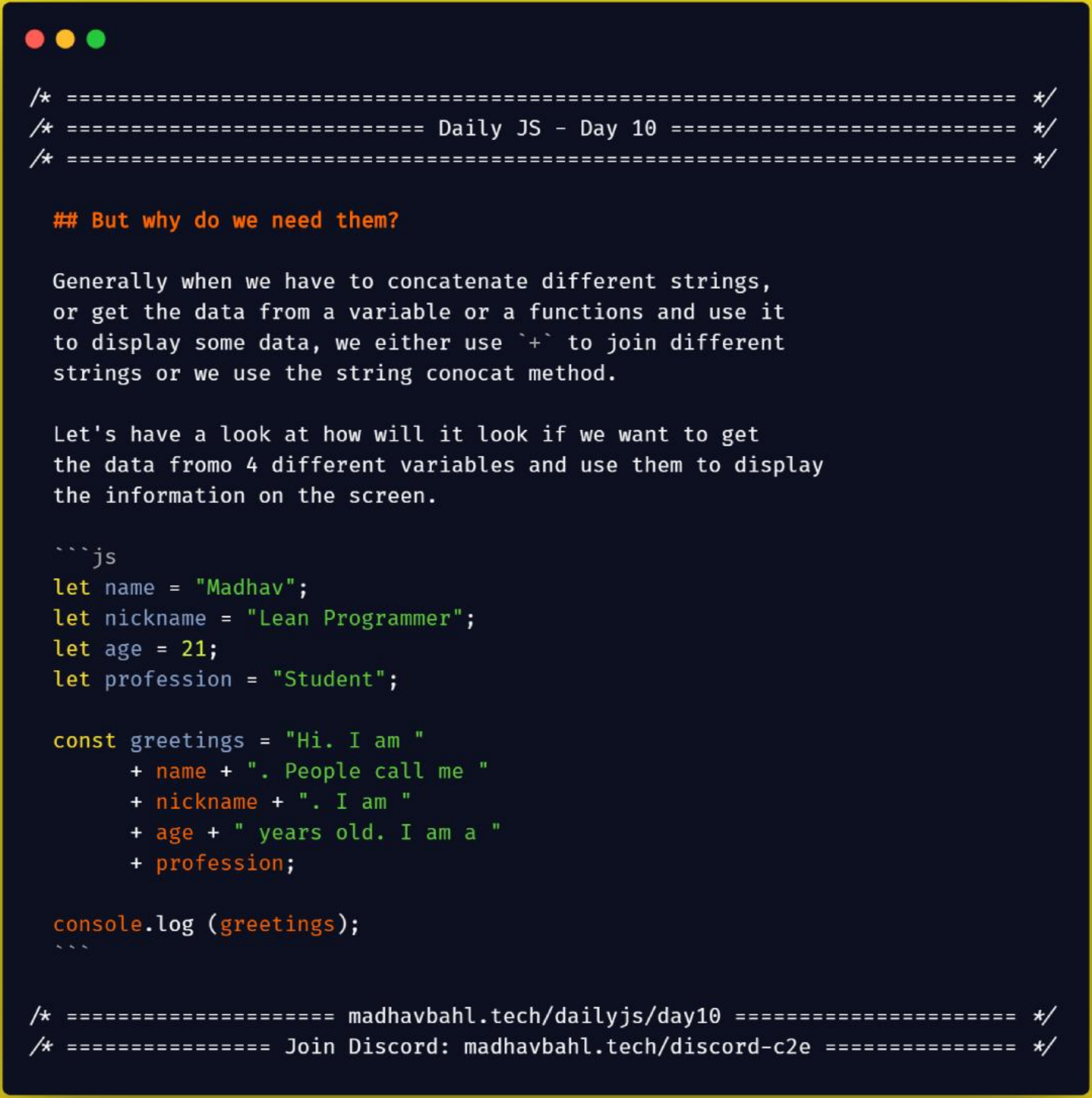

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  ## But why do we need them?

  Generally when we have to concatenate different strings,
  or get the data from a variable or a functions and use it
  to display some data, we either use `+` to join different
  strings or we use the string conocat method.

  Let's have a look at how will it look if we want to get
  the data fromo 4 different variables and use them to display
  the information on the screen.

  ```js
  let name = "Madhav";
  let nickname = "Lean Programmer";
  let age = 21;
  let profession = "Student";

  const greetings = "Hi. I am "
        + name + ". People call me "
        + nickname + ". I am "
        + age + " years old. I am a "
        + profession;

  console.log (greetings);
  ```

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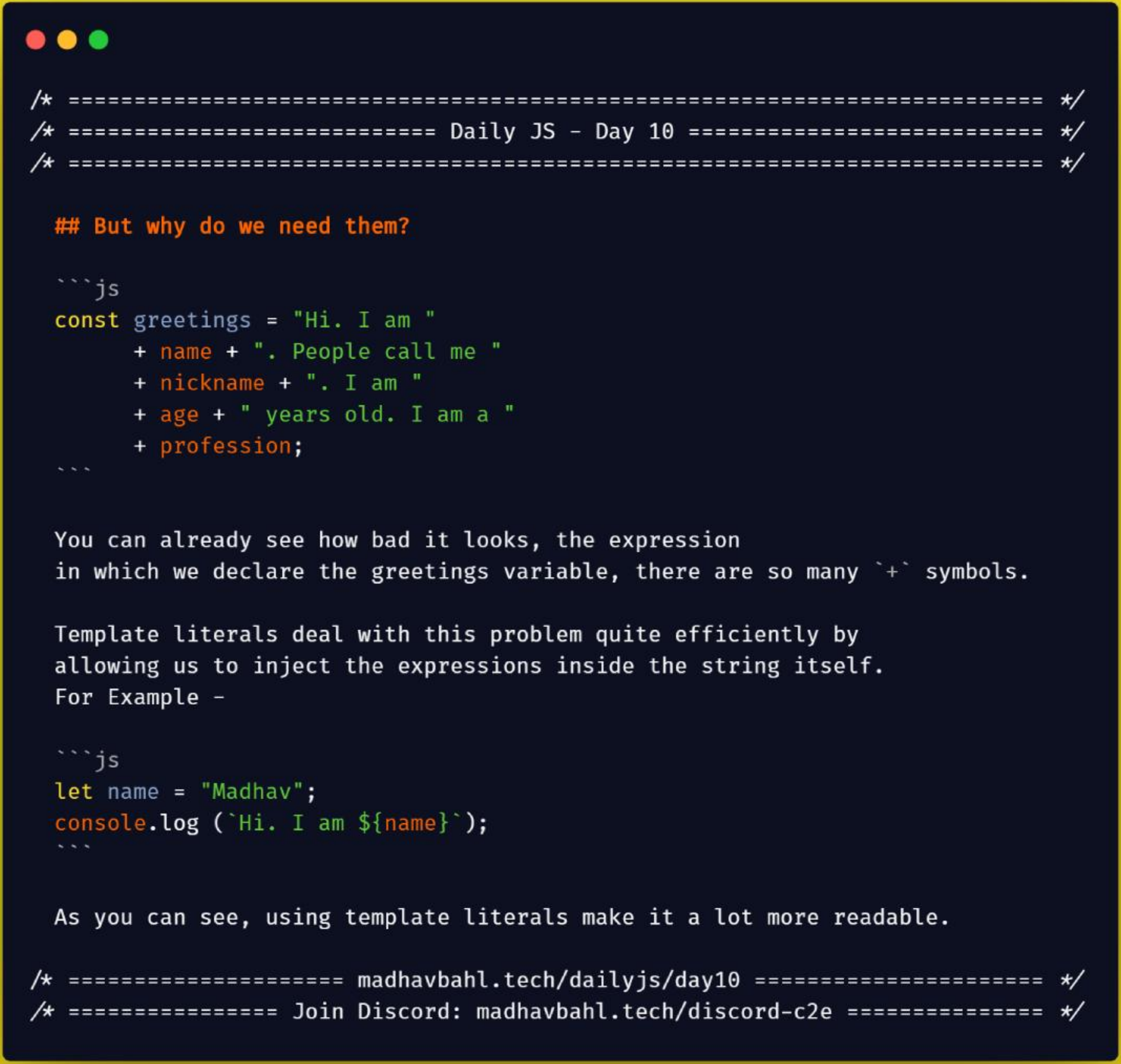

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  ## But why do we need them?

  ```js
  const greetings = "Hi. I am "
        + name + ". People call me "
        + nickname + ". I am "
        + age + " years old. I am a "
        + profession;
  ~~~

  You can already see how bad it looks, the expression
  in which we declare the greetings variable, there are so many `+` symbols.

  Template literals deal with this problem quite efficiently by
  allowing us to inject the expressions inside the string itself.
  For Example -

  ```js
  let name = "Madhav";
  console.log (`Hi. I am ${name}`);
  ```

  As you can see, using template literals make it a lot more readable.

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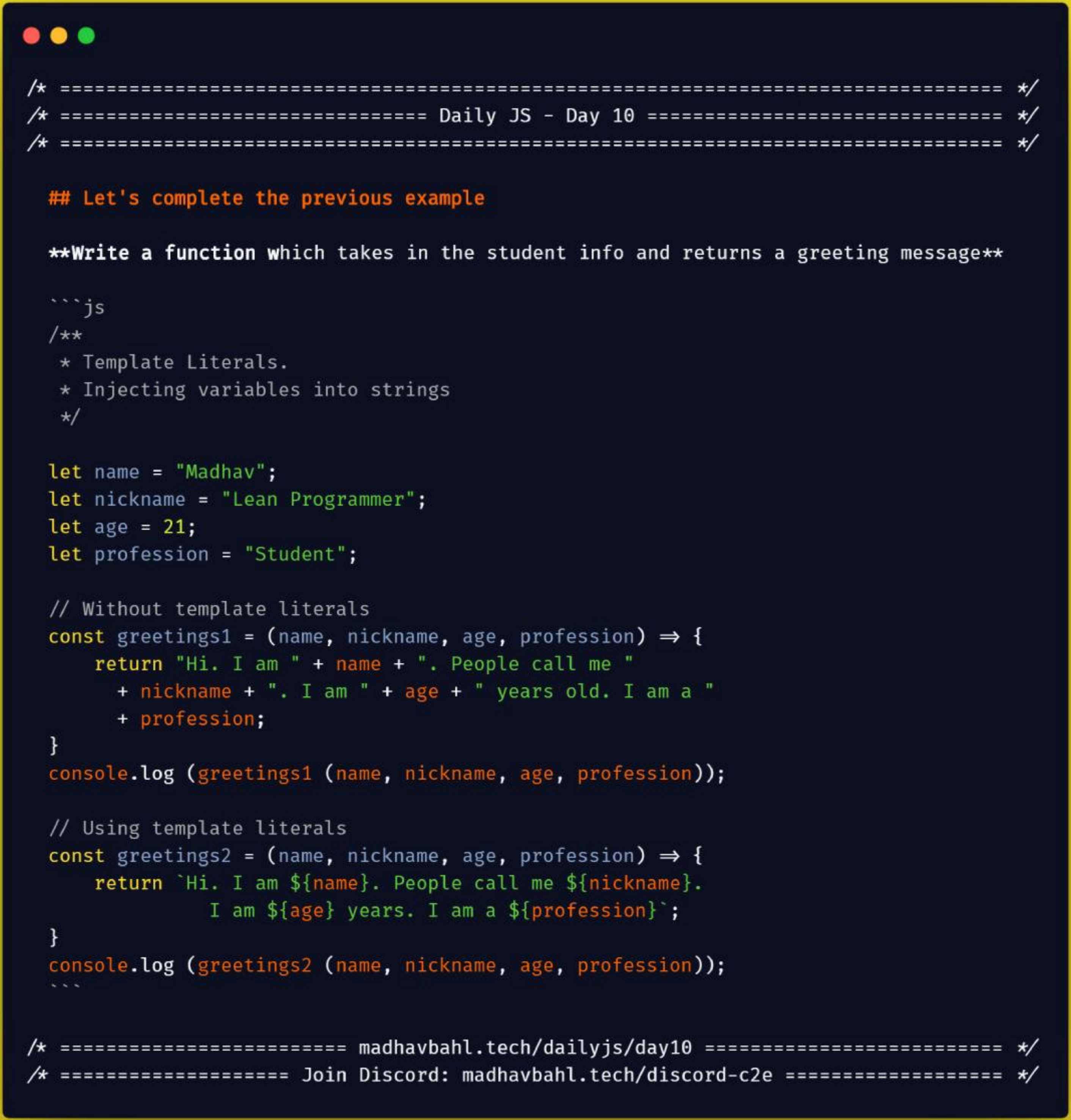

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  ## Let's complete the previous example

  **Write a function which takes in the student info and returns a greeting message**

  ```js
  /**
   * Template Literals.
   * Injecting variables into strings
   */

  let name = "Madhav";
  let nickname = "Lean Programmer";
  let age = 21;
  let profession = "Student";

  // Without template literals
  const greetings1 = (name, nickname, age, profession) => {
      return "Hi. I am " + name + ". People call me "
        + nickname + ". I am " + age + " years old. I am a "
        + profession;
  }
  console.log (greetings1 (name, nickname, age, profession));

  // Using template literals
  const greetings2 = (name, nickname, age, profession) => {
      return `Hi. I am ${name}. People call me ${nickname}.
                I am ${age} years. I am a ${profession}`;
  }
  console.log (greetings2 (name, nickname, age, profession));
  ```

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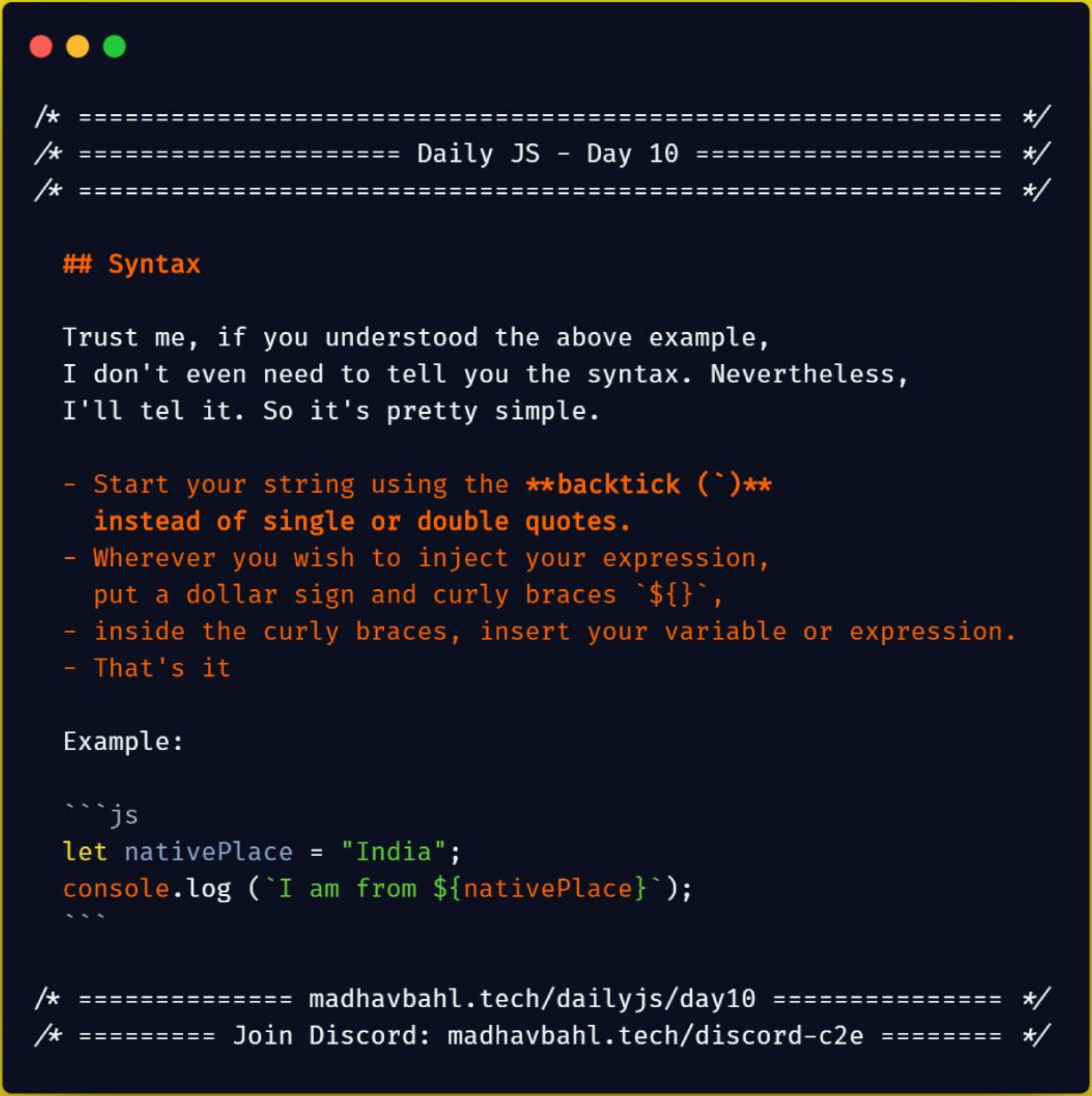

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  ## Syntax

  Trust me, if you understood the above example,
  I don't even need to tell you the syntax. Nevertheless,
  I'll tel it. So it's pretty simple.

  - Start your string using the **backtick (`)**
    instead of single or double quotes.
  - Wherever you wish to inject your expression,
    put a dollar sign and curly braces `${}`,
  - inside the curly braces, insert your variable or expression.
  - That's it

  Example:

  ```js
  let nativePlace = "India";
  console.log (`I am from ${nativePlace}`);
  ```

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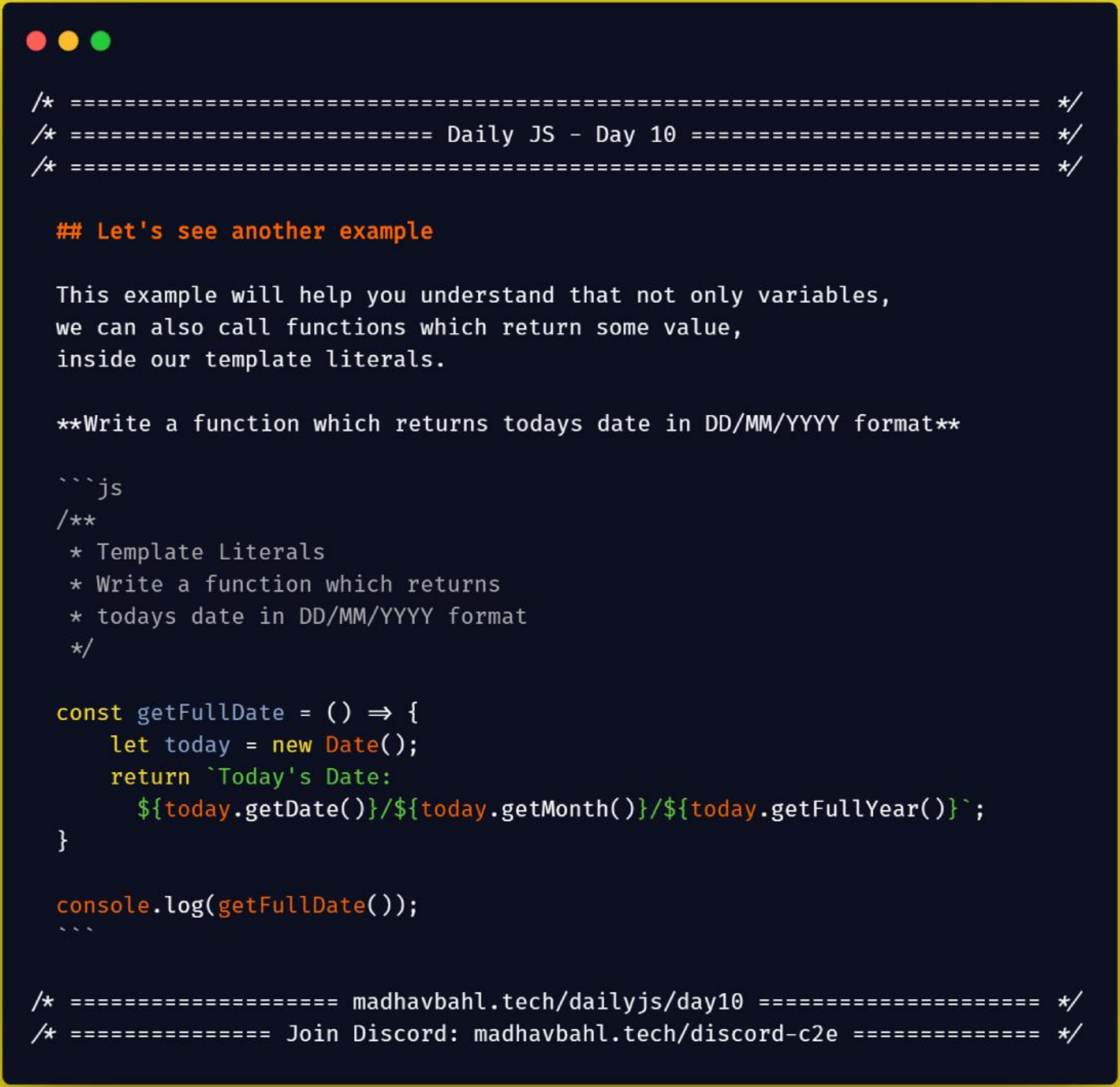

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  ## Let's see another example

  This example will help you understand that not only variables,
  we can also call functions which return some value,
  inside our template literals.

  **Write a function which returns todays date in DD/MM/YYYY format**

  ```js
  /**
   * Template Literals
   * Write a function which returns
   * todays date in DD/MM/YYYY format
   */

  const getFullDate = () => {
      let today = new Date();
      return `Today's Date:
        ${today.getDate()}/${today.getMonth()}/${today.getFullYear()}`;
  }

  console.log(getFullDate());
  ```

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Thank you!

Feel free to reach out...

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