

JS MINI-PROJECT 01

MAGIC 8 BALL:

Prompt:

In this homework assignment we will be creating a magic 8 ball JavaScript file that will give you a random response every time you run the code.

Requirements:

1. Part 01 – Homework 01

1. In the first line of "index.js" write `'console.log("Welcome to this magic eight ball application");'`
2. Create a constant variable called first name and set it as your first name: `'const first_name = "your name goes here";'`
3. Create a constant variable called last name and set it as your last name: `'const last_name = "your name goes here";'`
4. Create a variable using let called question and set it to a question: `'let question = "your question goes here";'`
5. Write a console.log statement that says "Hello my name is {first name} {last name} and my question is: {question}", ex: `'console.log("Hello my name is " + first_name + " " + last_name + " and my question is " + question);'`

2. Part 02 – Homework 02

1. Under the last_name variable and create a constant full name variable, use template literals to concatenate the first and last name variables, ex: `'const full_name = `${first_name} ${last_name}`;'`
2. Change the code in the last console.log statement to use template literals instead of string concatenation. ex: `'console.log(`Hello my name is ${first_name} ${last_name} and my question is: ${question}`);'`
3. In the final console.log use the full_name variable instead of the first and last name variables: ex: `'console.log(`Hello my name is ${full_name}....`);'`
4. In the final console.log use the .toUpperCase() method on question, ex: `'console.log(`... ${question.toUpperCase()}`);'`
5. In the final console.log use "\n" to create a new line after "my question is:", ex: `'console.log(`... my question is:\n...`);'`

3. Part 03 – Homework 03

1. After the last console.log statement, create a constant variable called random number, use the Math.random and Math.round functions to return a number between 1 and 8 and set the result to this variable, HINT at the number 1 at the end of the equation.
2. Create a new console.log statement and write the following code: `'console.log(`The answer to your question is ${random_number === 1 ? 'Yes' : 'No'}`);'`
3. Bonus: Check if random number is even, if it is even then print 'Yes', if the number is odd then print 'No'

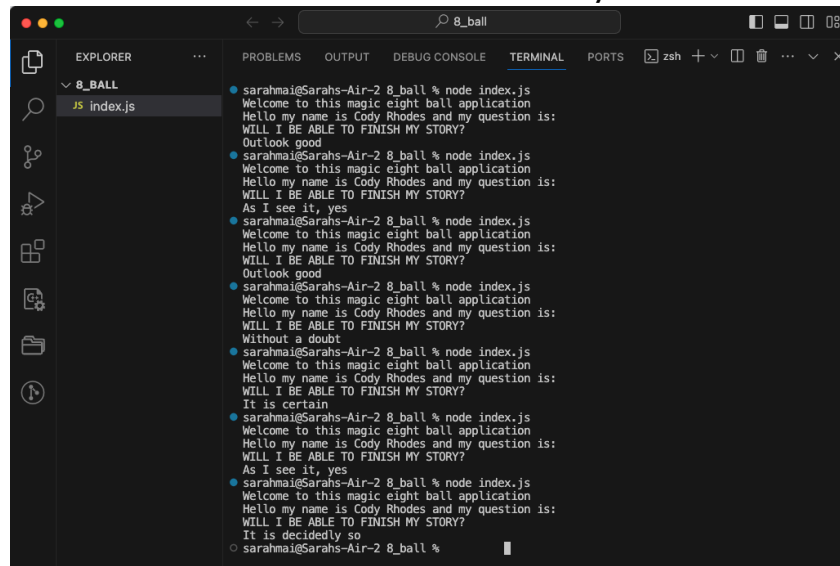
4. Part 04 – Homework 04

1. Create a function called `app`, this function will be blank for right now, and will be a container for the rest of our application.
2. Create a function called `greeting`, in this function move the code from lines 1-6 into this function.
3. In the `greeting` function pass three arguments, `first_name`, `last_name`, and `question` respectively. Then inside this function remove the lines that declare the variables `first_name`, `last_name`, and `question`
4. Create a function called `get_random_number`, in this function move the variable `random_number` inside this function and return the value at the end of the function
5. In `app` call the `greeting` function, pass your first name, last name, and `question` respectively.
6. In `app` create a constant `random_number` variable and set it to `get_random_number()`
7. Move `'console.log('The answer to your question is: ${random_number} === 1 ? 'Yes' : 'No')';` inside the `app` function
8. Call the `app` function at the end of the code file

5. Part 05 – Homework 05

1. Create a function called `magic_eight_ball`, this function needs to take a parameter called `number_result`.
2. In the `magic_eight_ball` function use a switch case on the `number_result` parameter to handle the cases between 1-8, in each case `console.log` a different message, the default case should `console.log` the message "Not a valid case please use a number between 1 and 8"
3. Inside the `app` function call the `magic_eight_ball` function and pass the `random_number` variable as the argument. Make sure to remove the `console.log` that is inside the `app` function

6. Your result should look somewhat similar to this when you run the terminal:



```
sarahmai@Sarahs-Air-2 8_ball % node index.js
Welcome to this magic eight ball application
Hello my name is Cody Rhodes and my question is:
WILL I BE ABLE TO FINISH MY STORY?
Outlook good

sarahmai@Sarahs-Air-2 8_ball % node index.js
Welcome to this magic eight ball application
Hello my name is Cody Rhodes and my question is:
WILL I BE ABLE TO FINISH MY STORY?
As I see it, yes

sarahmai@Sarahs-Air-2 8_ball % node index.js
Welcome to this magic eight ball application
Hello my name is Cody Rhodes and my question is:
WILL I BE ABLE TO FINISH MY STORY?
Outlook good

sarahmai@Sarahs-Air-2 8_ball % node index.js
Welcome to this magic eight ball application
Hello my name is Cody Rhodes and my question is:
WILL I BE ABLE TO FINISH MY STORY?
Without a doubt

sarahmai@Sarahs-Air-2 8_ball % node index.js
Welcome to this magic eight ball application
Hello my name is Cody Rhodes and my question is:
WILL I BE ABLE TO FINISH MY STORY?
It is certain

sarahmai@Sarahs-Air-2 8_ball % node index.js
Welcome to this magic eight ball application
Hello my name is Cody Rhodes and my question is:
WILL I BE ABLE TO FINISH MY STORY?
As I see it, yes

sarahmai@Sarahs-Air-2 8_ball % node index.js
Welcome to this magic eight ball application
Hello my name is Cody Rhodes and my question is:
WILL I BE ABLE TO FINISH MY STORY?
It is decidedly so

sarahmai@Sarahs-Air-2 8_ball %
```

