Object Exercises

CS133JS Lab 6, Part 1

Create a file named *ObjectExercises.js*. For each of the exercises below, add the code required to complete the exercise.

Creating Objects

book • title author

copyright

(date) author

birthdate

• name

Check If you have created the objects correctly, the property keys will be listed here:

The book object: title,author,copyright

The author object: name, birthdate

1. Create two global object literals with the properties listed. You can choose your own values.

Accessing Properties 2. Write two functions with the following names and return values:

No parameters

No parameters

Returns the book title

• Returns the name of the author

(From the author object)

(Don't worry about the formatting of the lists.)

• getAuthor()

• getTitle()

Check If you have written the functions correctly, the names of the title and author will be shown here:

The book title: Oliver Twist

The author name: Charles Dickens

setBirthdate(year) • One parameter: the year the author was born.

No return value

3. Write the function described below:

- Sets the birthdate property of the *author* object Check
- If you have written the function correctly, the new birth date will be 1901

The author's birth year: 1901

Calling a Method

(It is in the header of the html file.)

const microwave = { power: "Medium", time: 30,

}

Check

cookOneMinute() No parameters • The function will do these things to the *microwave* object:

4. For this exercise, the object below has already been created:

return "Cooking on " + this.power + " for " + this.time + " seconds.";

cook: function() {

• Set the time to 60 seconds

Call the cook method

• Returns he string from cook.

Write the function described below:

Cooking on medium for 60 seconds.

5. For this exercise, the object below has already been created:

Adding Properties to an Object

(It is in the header of the html file.) const cdPlayer = {

}

Check

track: 9, play: function() { return "Playing track " + this.track + ".";

If you have added the properties correctly, the values will be shown here:

Write code to add the two properties described below to the *cdPlayer* object. Choose your own values.

If you have written the function correctly, the cooking message will be shown here:

volume (numeric data type) album

(Name of the album on the CD)

The name of the album: Peter, Paul and Mary

Adding Methods to an Object

The CD player's volume: 10

6. Write code to add the method shown below to the *cdPlayer* object skip()

• No parameters or return value If you have added the method correctly, the track number will be 10.

• Sets the track to the next track.

The CD player's track number: 10

7. Write code to remove the *power* property from the *microwave* object.

Removing Properties from an Object

The CD player's power property: doesn't exist

Looping through Properties on an Object

8. Write the function described below that will use a loop to return an list of the values (not keys) of the properties in the cdPlayer object

- No parameters • Returns a string
- Check

listValues()

Check

The values of the properties: 10, function () { return "Playing track " + this.track + "."; }, 10, Peter, Paul and Mary, function () { this.track++; },

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