Object Exercises

CS133JS Lab 6, Part 1

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

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

Creating Objects

book

- (date) author
 - birthdate

o name

o title

author

copyright

- If you have created the objects correctly, the property keys will be listed here: (Don't worry about the formatting of the lists.)

The book object: title,author,copyright The author object: name, birthdate

Check

2. Write two functions with the following names and return values: • getTitle()

Accessing Properties

- getAuthor()
- Returns the name of the author (From the author object) Check

The author name: Charles Dickens

3. Write the function described below:

• One parameter: the year the author was born.

• Sets the birthdate property of the *author* object

If you have written the function correctly, the new birth date will be 1901

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

• The function will do these things to the *microwave* object:

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

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

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

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

No parameters

No parameters

Returns the book title

If you have written the functions correctly, the names of the title and author will be shown here: The book title: Oliver Twist

setBirthdate(year)

Check

No return value

The author's birth year: 1901

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

cook: function() {

• Set the time to 60 seconds

Call the cook method

• Returns he string from cook.

Calling a Method

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

Write the function described below: cookOneMinute()

}

No parameters

- Check
- Cooking on medium for 60 seconds.

Adding Properties to an Object

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

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

(numeric data type)

The CD player's volume: 10

}

volume

album

const cdPlayer = { power: true, track: 9,

(Name of the album on the CD) Check

skip()

Adding Methods to an Object

The name of the album: Peter, Paul and Mary

If you have added the method correctly, the track number will be 10.

The CD player's track number: 10

• Sets the track to the next track. No parameters or return value

Removing Properties from an Object

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

7. Write code to remove the *power* property from the *cdPlayer* 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

Check

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

6. Write code to add the method shown below to the cdPlayer object

- **Looping through Properties on an Object**
 - No parameters Returns a string
- The values of the properties: 10, function () { return "Playing track " + this.track + "."; }, 10, Peter, Paul and Mary, function () {
- this.track++; },
- Written by Brian Bird, 5/19/2020, for CS133JS at Lane Community College

cdPlayer object

listValues()

Check