



PART 2

LAB SESSION

✓ **Objects**

Lab 7a: Accessing Object Property With Brackets



1. Create *7a-bracket-accessor.js*

```
let person = {  
  name: "Bob",  
  job: "Teacher",  
  age: 30,  
  email: "bob@somewhere.com",  
  "bob@somewhere.com": { account: "bob", domain: "somewhere.com" },  
};
```

2. Write the Javascript code to access and display the value of '[bob@somewhere.com](#)' property.

Answer

Since 'bob@somewhere.com' doesn't comply with Javascript's grammatical rule, it cannot be accessed using the dot accessor notation `person.bob@somewhere.com` but it can still be accessed using the bracket accessor notation, `person["bob@somewhere.com"]`.

```
let person = {
  name: "Bob",
  job: "Teacher",
  age: 30,
  email: "bob@somewhere.com",
  "bob@somewhere.com": { account: "bob", domain: "somewhere.com" },
};

//person.bob@somewhere.com // this will fail with Invalid or unexpected token
console.log(person["bob@somewhere.com"]);
```

Lab 7d: Converting Date to String



In this lab, we will learn how to use the Javascript Date object to convert date into string.

- In Javascript, Date objects contains a single moment in time in a platform-independent format represented by a number.
- This number represents milliseconds since 1 January 1970 UTC. UTC means the timezone is GMT +0 and each day is 86,400,000 milliseconds. This date format is known as Unix Epoch.
- The purpose of this lab is to demonstrate how to convert a numeric date value into a date string of the form yyyy-mm-dd in GMT.

1. Create the file *7d-date-to-string.js*.

```
const date = 1458086400 * 1000; // epoch date in milliseconds
```

Lab 7d: Converting Date to String



2. Create a Javascript Date object using CloseTime * 1000.

```
const d = new Date(date);
```

3. Extract year, month and date using getFullYear(), getMonth() and getDate() respectively from the date object.

NOTE : getMonth() returns month with index starting from 0 to 11, add +1 to get the correct month.

```
const dd = d.getFullYear();  
const mm = d.getMonth()+1;  
const yyyy = d.getDate();
```

4. Concatenate the values using string interpolation.

```
const dateStr = `${yyyy}-${mm}-${dd}`  
console.log(dateStr);
```

The result should display 2016-2-16

Lab 7e: Exporting function as reusable module



In this lab, we will learn how to export the date to string function into a module. A module in Node.JS is a library of objects that can be imported and reused by other Javascripts.

1. Create the file **date2string.js**.
2. Create a function **date2string** in date2string.js that takes in a single parameter called 'date' in milliseconds.

The function should return the date in string formatted as yyyy-mm-dd.

3. Export as module.

module.exports is a special object that is included in every Node.JS file by default. The above function date2string will be exported as a module that can be imported into other Javascript.

Add the following line to the end of your date2string.js file to export the function.

```
module.exports = date2string;
```

Lab 7e: Exporting function as reusable module



4. Create the file *7e-date-string-import.js* and run it.

```
const date2string = require("./date2string.js");  
const date = 1458086400;  
console.log(date2string(date * 1000));
```

The result should return 2016-2-16 computed using the imported date2string