EXERCICE 1 – FRUITS DATABASE

OBJECTIVES

- ✓ Manipulate ARRAY and OBJECTS
- ✓ Use built in MODULES FS
- ✓ Create a module with some functions

EXERCICE 1 – FRUITS DATABASE

PART A

Let's manage a list of fruits!!

Complete the file: fruitsLib.js

Name (string)

Each fruit has 3 properties:

Color (string)

Price (integer)

- Q1 Code the function addFruit to add a fruit to the list of fruits
- Q2 Code the function getColorOf to get the color of a fruit, given as parameter the fruit name
- Q3 Code the function getPriceOf to get the price of a fruit, given as parameter the fruit name
- Q4 Code the function listFruit to display all the fruits name

Example: if you have 2 fruits (banana and apple) in the list, this function display:

Here are the fruits

- Banana
- Apple

The code to TEST your function is ALREADY done:

```
addFruit("banana", "yellow", 12);
addFruit("apple", "red", 20);
addFruit("mango", "green", 20);

listFruits();

console.log("banana price is :" + getPriceOf("banana"));
console.log("mango color is :" + getColorOf("mango"));
```

Q5 – Run the file *fruitsLib.js*

=> You should see the following content on the console:

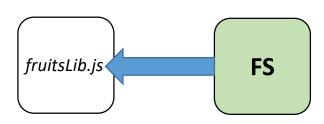
```
fruit added: banana
fruit added: apple
fruit added: mango
Here are the fruits:
-banana
-apple
-mango

banana price is :12
mango color is :green
```

PART B

Now let's **SAVE** and **LOAD** the fruit list in a JSON file!

Import the built-in module FS to read and write files



- Q1 Code the function save() to save the fruits in a JSON file named: fruits.JSON
- Q2 Code the function load() to load the fruits from a JSON file named: fruits.JSON
- Q3 Add the save() at the end of the test code from PART A
- Q4 Run the file *fruitsLib.js*
- => You should see a file: fruits.json with following content:

```
[
     {"name":"banana","color":"yellow","price":12},
     {"name":"apple","color":"red","price":20},
     {"name":"mango","color":"green","price":20}
]
```

PART C

Now let's put the test code in another file: test1.js

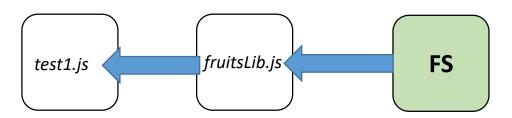
Create a new file: test1.js

On test1.js:

- Move the code to test function to this file
- Require the fruitLib.js to access to the functions from test1.js

Run the file *test1.js*

=> You should see the SAME as PART A and B



On fruitLib.js:

- Export the following functions to the module:
 - addFruit
 - getPriceOf
 - getColorOf
 - listFruits
 - save