Course:	INFO6144
Professor:	Osam Ali
Project:	Lab #5
Due Date:	Friday, July 19, 2024 11:59 pm
Submitting:	Submit your zipped solution to the Lab 5 drop-box

How will my lab be marked?

Marks Available	How are the Marks Awarded?	Mark Assigned
3	Web page runs and meets the requirements listed below	
1	Reasonable level of comments	
1	Web Page is zipped and submitted on-time to the drop box	
5	Total	

Lab Description

This lab will require you to create a simple node.js web site that reads a text file containing a fully qualified URL and then uses the URL to retrieve JSON data from a remote web site and finally saves the retrieved JSON to another text file (JSON.txt), all in the root of your web site.

If you're working with Visual Studio, you can use the "Lab5" solution as a starting point for your own solution to Lab5. Make sure you test Lab5 before you start making changes to the code.
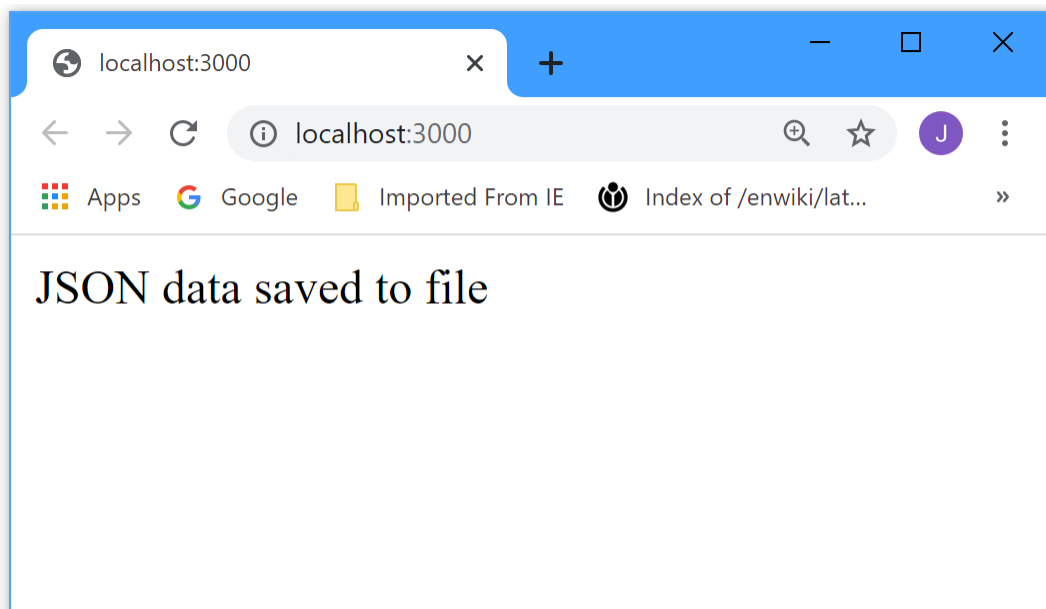
Requirements:

1. Begin by using a text editor to create a file called urls.txt in the root of your site. For the purpose of this lab, the file should contain the following single URL for testing:

https://statsapi.mlb.com/api/v1/schedule/games/?sportId=1&startDate=2023-07-07&endDate=2023-07-07

2. As part of the initialization process, your server.js code should read the URL found in urls.txt and store the value in a global variable.

3. Next, you'll need to add the code required to save the JSON string that's returned from the test URL (the MLB baseball site).

4. In addition, since we might want to generalize this process, you'll need to move the existing "Promises" code that handles the JSON retrieval, into a function expression called "getJSON" which takes a single parameter (the URL).

5. Because we want the entire process to happen at startup, you should code "getJSON" as an IIFE with the URL retrieved from urls.txt as the single IIFE parameter.

6. Finally, in your "resolve" function located in the promises consuming section, save the returned JSON string to a file called JSON.txt and return a message to the browser that says, "JSON data saved to file" and echo the same message to the console.

Sample Output:

📁 bin	2021-04-05 6:15 AM	File folder	
📁 node_modules	2021-04-05 5:58 AM	File folder	
📁 obj	2021-04-05 6:15 AM	File folder	
📄 json	2021-04-05 6:36 AM	TXT File	75 KB
Lab5_Solution.njsproj	2021-04-05 6:35 AM	NJSPROJ File	4 KB
Lab5_Solution.njsproj.user	2021-04-05 5:57 AM	Per-User Project Opti...	1 KB
package	2021-04-05 5:58 AM	JSON File	1 KB
package-lock	2021-04-05 5:58 AM	JSON File	15 KB
📄 README	2021-04-05 5:57 AM	MD File	1 KB
server	2021-04-05 6:35 AM	JavaScript File	3 KB
📄 urls	2018-11-04 9:43 PM	TXT File	1 KB