**Part** **2**

* Which programming languages did you use for each of these problems?
  + For the problem 1: I used Java to get from a Spotify CSV file the information of two columns (artist name and streams) by using the scanner and PrintStream classes. Then, because an artist can appear on the list more than once, I decided to keep the name of an artist only once and add up the streams of all his songs which appear on the CSV file. Finally, I sorted the final information by the name of the artists (from A to Z).
  + For the problem 2: since it is almost the same as the problem 1, I used the same language (Java). I pulled from a weather forecast CSV file the Temperature data (by default in Fahrenheit for 15 days in New York) and convert them to Celsius.
  + For the problem 3: I used JavaScript to make a request to the NASA API to get the APOD. Then parse the return Json data to a JavaScript object and through some JavaScript, HTML codes print the result in the browser.
* Why did you choose a particular language? (There is no right or wrong answer here, choosing an implementation is an art form)
  + For the first two problems (1 & 2) it was very easy for me to use java. First, because I am more comfortable writing code with java (since it is the language that I know the most). Second, because I already did a similar lab for my

Cisc 3130 class (that I am taking this semester).

* + For the problem 3 I used JavaScript because by doing some research I found an important tutorial on how to solve a similar problem (make request to an API endpoint) and the tutorial is written in JavaScript. In addition, I found out that most API endpoint return Json file as response of a request and with JavaScript it is easy to parse those data and use them.
* Was there any difficult or easy about using that language for solving the problem?

I had and issue with the 3rd problem at the beginning because it was my first time to deal with API. So, I had to do some research to know what I am supposed to do then after that chose which language will be easy for me to use to solve the problem.

* If you had to solve the problem again, would you choose a different language?

Definitely for the problem 1 and 2, I would like to try to solve them by using ether python or JavaScript since those two languages are flexible with variable type and using list, array.

**Source:**

* + [**https://www.visualcrossing.com/weather/weather-data-services**](https://www.visualcrossing.com/weather/weather-data-services)
  + [**https://spotifycharts.com/regional**](https://spotifycharts.com/regional)
  + [NASA's Astronomy Picture of the Day (APOD)](https://api.nasa.gov/#apod)
  + <https://www.taniarascia.com/how-to-connect-to-an-api-with-javascript/>