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Special Notes to Instructor [Click or tap here to enter text.](#)

Using Mozilla Firefox is strongly recommended for this Activity because it can transform JSON responses into a human readable format. (Raw Data > "Pretty Print") (#) is points for API and Time Zone questions.

1. (5) What is sent via the API from one system to another? What is sent back?

API sends: It sends a single request to Youtube below information :-
Youtube.videos.update({
Resource: video,
Part: 'snippet',
Auth: auth,
});
Sent back: Youtube send back a single answer. It's a response code of 200.

2. (5) Use api.agify.io to predict the age of a person using your given name and an ISO country code

API URL request: https://api.agify.io/?name=chetanarora&country_id=91
JSON response:
{
 "count": 0,
 "name": "chetanarora",
 "age": null,
 "country_id": "91"
}

3. (5) Use the time zone API request at worldtimeapi.org

API URL request: <http://worldtimeapi.org/api/timezone/Asia/Kolkata>
JSON response:
{
 "abbreviation": "IST",
 "client_ip": "142.204.27.50",
 "datetime": "2024-03-12T23:42:42.091073+05:30",
 "day_of_week": 2,
 "day_of_year": 72,
 "dst": false,
 "dst_from": null,
 "dst_offset": 0,
 "dst_until": null,
 "raw_offset": 19800,
 "timezone": "Asia/Kolkata",
 "unixtime": 1710267162,
 "utc_datetime": "2024-03-12T18:12:42.091073+00:00",
 "utc_offset": "+05:30",
 "week_number": 11
}

4. (16) Using the above JSON data from worldtimeapi.org, fill in the JSON key / value pairs relating to the descriptions in the table below.

<i>See Response Schema</i>	JSON key	JSON value
UTC date/time in ISO8601 format	utc_datetime	2024-03-12T18:12:42.091073+00:00
Unix UTC timestamp	unixtime	1710267162
Unix UTC to location difference	raw_offset	19800
Location's daylight-saving time difference	dst_offset	0
Location date/time in ISO8601 format	datetime	2024-03-12T23:42:42.091073+05:30
How do you calculate the location's timestamp from the UTC timestamp using JSON keys?	$\begin{aligned} \text{Location timestamp} &= \text{UTC timestamp} \\ &+ (\text{Location's raw offset} + \\ &\quad \text{Location's daylight-saving time difference}) \end{aligned}$ $\begin{aligned} \text{Location timestamp} &= 1710267162 + \\ &\quad (19800 + 0) \end{aligned}$	Calculated location timestamp value is: 1710286962

5. (5) How did you confirm that your location timestamp when converted to data/time was the same as the Location date/time in ISO8601 format in the JSON schema? Show your test and the result.

*To confirm that the calculated Location timestamp corresponds to the Location date/time in ISO8601 format, I have use <https://www.epochconverter.com/> to convert the timestamp back to a date/time format and compare it with the original value from the JSON schema.
result is 2024-03-12 18:12:42*

SDLC – Software Development Life Cycle 54 points = 9 points × 6 items, 75+ words each

Determine:

First, I understand what I need to do for my assignment. I read the instructions carefully to figure out what's required. Make the list of all the things I need to do, like tasks on a to-do list. This will help me plan how to finish my assignment.

Define:

Next, I make sure what the assignment is asking for. Look at all the details and I understand what I need to put in, what the computer will do with it, and what should come out. If anything is unclear, I ask my teacher or classmates to help me to understand.

Design:

Now, I think about how I going to solve the assignment. Before I start typing away, I think about the steps I'll take. It's like drawing a map of my plan. I can write down the steps or draw little pictures to help me remember. Also, write down notes about what each part of my code will do. It's like giving directions to someone who will read my code later.

Develop:

Time to start writing my code! I take it step by step, just like planned. Write small pieces of code and check each one as go. It's like building a puzzle, putting one piece at a time until it's complete. I add comments to explain what each part of my code does. This will help me and others to understand it later. Once I done, I test code to make sure it works like it's supposed to.

Deliver:

Now that my code is ready, it's time to hand it in. Follow the instructions of my teacher gave me for submitting your work. Everything is organized neatly and named correctly. If something goes wrong, I try to figure out what's causing the problem and fix it. Once everything is working smoothly, I write a short reflection about what I learned while working on the assignment.

D'oh:

Finally, I remember to keep my work organized and easy to understand. As my work on more assignments, I want to be able to find things quickly and understand what I did before. Keep my files tidy and update them as needed. If I need to change something later and keep track of what I changed and why. This will help me stay on top of my work and make future assignments easier.

Software Version**5 × 2 points each**

A. The software is called Google Chrome, and its current version is 123.0.6132.46.

B. The version number for Google Chrome, like "Version 123.0.6132.46", consists of several components:

Major Version (123): This indicates a major release of the software.

Minor Version (0): The minor version represents smaller updates and enhancements within a major version. It may include bug fixes, performance improvements, or minor feature additions.

Build Number (6132): The build number is used to differentiate between different builds or revisions of the same version.

Patch Number (46): The patch number is a more granular identifier within a build.

C. Google Chrome Version 123 may be forward compatible by supporting future web standards, maintaining compatibility with new extensions and add-ons, enhancing security features, synchronizing with upcoming services, and scaling performance to handle evolving software and hardware requirements.

D. Google Chrome Version 123 would be backward compatible by supporting older web standards, ensuring compatibility with existing extensions and add-ons, allowing access to legacy services and platforms, preserving user data and settings during upgrades, and remaining compatible with older hardware and operating systems.

E. The Stable channel has been updated to 123.0.6132.46 for Windows and Mac as part of our early stable release to a small percentage of users. A full list of changes in this build is available in the log.

You can find more details about early Stable releases here.

Interested in switching release channels? Find out how here. If you find a new issue, please let us know by filing a bug. The community help forum is also a great place to reach out for help or learn about common issues.

Srinivas Sista

Google Chrome

url:- <https://chromereleases.googleblog.com/>