PART 1

What is HTTP?

* It stands for Hypertext Transfer Protocol. It is a set of rules that structures how information is transferred between a browser and a server.

What is a URL?

* It stands for Universal Resource Locator. It consists of Protocol, Hostname, Port, Resource, and Query.

What is DNS?

* It stands for Domain Name System. It translates hostname to its corresponding IP address.

What is a query string?

* It provides additional information that is part of the URL.

What are two HTTP verbs and how are they different?

* GET and POST
* GET: retrieves data and does not change server data. It sends requests without side effects.
* POST: it sends requests with side effect where it changes the server data.

What is a HTTP request?

* It sends an action by using a method that has a HTTP protocol version and the resource URL with the header.

What is a HTTP response?

* It is the result of the request that has a HTTP protocol, response status code, and headers.

What is a HTTP header?

* It allows additional information to be passed.
* Ex. host: google.com

What are the processes that happen when you type “[http://somesite.com/some/page.html](http://somesite.com/som/page.html)” into a browser?

* Browser looks up IP address for the domain
* Bowser connects with server
* Browser sends HTTP request to server
* Server processes the request and sends a response
* Browser renders content from response

PART 2

Search for jokes containing the work “pirate”:

curl -H "Accept: application/json" "https://icanhazdadjoke.com/search?term=pirate"

{"current\_page":1,"limit":20,"next\_page":1,"previous\_page":1,"results":[{"id":"QuscibaMClb","joke":**"What does a pirate pay for his corn? A buccaneer!"**},{"id":"SvzIBAQS0Dd","joke":**"What did the pirate say on his 80th birthday? Aye Matey!"**},{"id":"2gii3LeN7Ed","joke":**"Why couldn't the kid see the pirate movie? Because it was rated arrr!"**},{"id":"SnOf2gqjiqc","joke":**"Why are pirates called pirates? Because they arrr!"**},{"id":"exXSCtkOKe","joke"**:"Why do pirates not know the alphabet? They always get stuck at \"C\"."**}],"search\_term":"pirate","status":200,"**total\_jokes":5,**"total\_pages":1}

IP address for *icanhazdadjoke.com :* 104.21.66.15 *,* 172.67.198.173

Open with Live Server with Visual Code : http://127.0.0.1:5500/index.html