

ENSF381 – Lab1

Section: L01/L02/L03 *[They must keep only one, if they made mistake write a note in the feedback section. Don't deduct any mark for wrong value]*

Date: 2024-01-15 *[They must write the correct date. For L01 Jan 01, for L02/L03 Jan 17. If they made mistake write a note in the feedback section. Don't deduct any mark for wrong value]*

Created by: JAHNAVI AKURI		
First name	Last name	UCID
X	y	z

[Check the name. If they made mistake write a note in the feedback section. Don't deduct any mark for wrong name or wrong UCID]

2.7.1 Why is the content of the address bar in the two browsing methods different? Write your answer in the designated space on the answer file.

[5 marks. Just for this specific question if they forgot to attach the reference of the information, do not deduct any marks]

<http://127.0.0.1:5500/LAB1/index.html> – This URL uses HTTP (http://) protocol it indicates that the browser is fetching the requested html file (index.html) from a local server (live server) at a given address (127.0.0.1) on port (5500) .

file:///C:/Users/Jahnavi/ENSF381_TA/LAB1/index.html -- This URL uses FILE protocol(file://) it indicates that the browser is fetching the requested html file (index.html) from the local file system.

3.1.a [3 marks]

URI(Uniform Resource Identifier)

- It's a string of characters to identify a particular resource on the internet.
- A URI identifies a resource by name, location or by both (resource + protocol)
- URI have two sub type namely URL and URN

URL(Uniform Resource Locator)

- URL is a type of URI that provides address (specific location) and protocol of the particular resource at a particular point in time.
- If the resource location or method of access changes, URL also change to reflect the updated resource information.

Ex: <https://www.google.com>

URN(Uniform Resource Name) [Optional]

- URN ensures the resource is uniquely identified, irrespective of its location or method of access.
- URN scope is to identify resources in a permanent way, even the resource doesn't exist anymore

Ex: urn:<NAMESPACE-IDENTIFIER>:<NAMESPACE-SPECIFIC STRING>

urn: isbn:1234567890 (identifies a publication through ISBN system)

Ref: <https://danielmiessler.com/p/difference-between-uri-url/>

Please notice if they attached the source of the information. Any answer without reference is not acceptable and has no mark.

3.1.b [3 marks, each 0.5. Just for this specific question if they forgot to attach the reference of the information, do not deduct any marks.]

Name each part of this URL: <https://auth.example.com/site1?name=Alex&num=123>

1. URL scheme: [//authority][//path][?query parameters] *[optional, give 0.5 for missing ones also]*
 2. Scheme/Protocol (https) – Specifies the protocol used to access the resource.
 3. Domain (example.com)- Indicates the domain name where the resource is hosted
 4. Sub-Domain (auth)- Indicates the sub-domain
 5. Path (/site1) – refers to path or directory of the resource on the server
 6. Query parameters (?name=Alex&num=123): Additional information sent to the server name and num are the parameters where as Alex and 123 are values which are separated by &
-

3.2.a

[2 marks. Please notice if they attached the source of the information. Any answer without reference is not acceptable.]

A domain name is a human-readable address to locate a specific website (www.google.com) on the internet. It serves as a user-friendly representation of a website's actual IP Address (2001:4860:4860::8888 or 8.8.8.8)

An IP Address is a numerical label assigned to each device connected to a computer network that uses Internet Protocol for communication It serves as a unique identifier for that device on the network.

Once a domain name is registered it is mapped to a web server where all the website's files are stored. This mapping of the domain name with the server's IP address is done through DNS settings.

Ref:

3.2.b

136.159.96.125

[1 mark. Showing how to reach the answer is optional.]

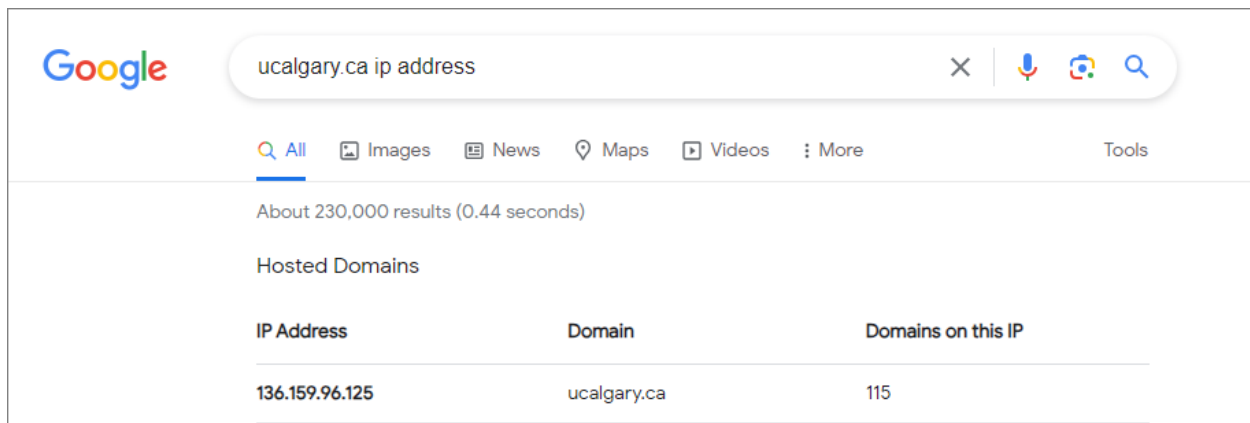
```
C:\Users\Jahnavi>nslookup -q=A ucalgary.ca
Server:  node-1w7jr9n24twqzs2cg5ed4tjl3.ipv6.telus.net
Address:  2001:568:ff09:10c::67

Non-authoritative answer:
Name:     ucalgary.ca
Address:  136.159.96.125
```

3.2.c

115

[1 mark. Showing how to reach the answer is optional.]



The screenshot shows a Google search interface with the query 'ucalgary.ca ip address'. The search results indicate approximately 230,000 results found in 0.44 seconds. Below the search bar, there are tabs for 'All', 'Images', 'News', 'Maps', 'Videos', and 'More'. The 'All' tab is selected. The search results display a table titled 'Hosted Domains' with three columns: 'IP Address', 'Domain', and 'Domains on this IP'. The table contains one entry: IP Address 136.159.96.125, Domain ucalgary.ca, and Domains on this IP 115.

IP Address	Domain	Domains on this IP
136.159.96.125	ucalgary.ca	115

4.1 .

[5 marks. Please notice if they attached the source of the information. Any answer without reference is not acceptable.]

HTML (Hypertext Markup Language) is a markup language that is used to create web pages. HTML is used to structure and format the content on a web page, such as text, images, and links.

HTTP (Hypertext Transfer Protocol) is a protocol that allows web browsers and servers to communicate with each other. HTTP is responsible for transferring data, such as HTML pages, images, and videos, between web browsers and servers.

HTTP and HTTPS are protocols, while HTML is a markup language. Protocols are used to define how data is transferred between devices, while markup languages are used to structure and format content.

HTTP is the underlying protocol that powers the web. It is used to transfer HTML pages, images, videos, and other types of content between web browsers and servers.

Ref: ... **[must be provided]**

4.2

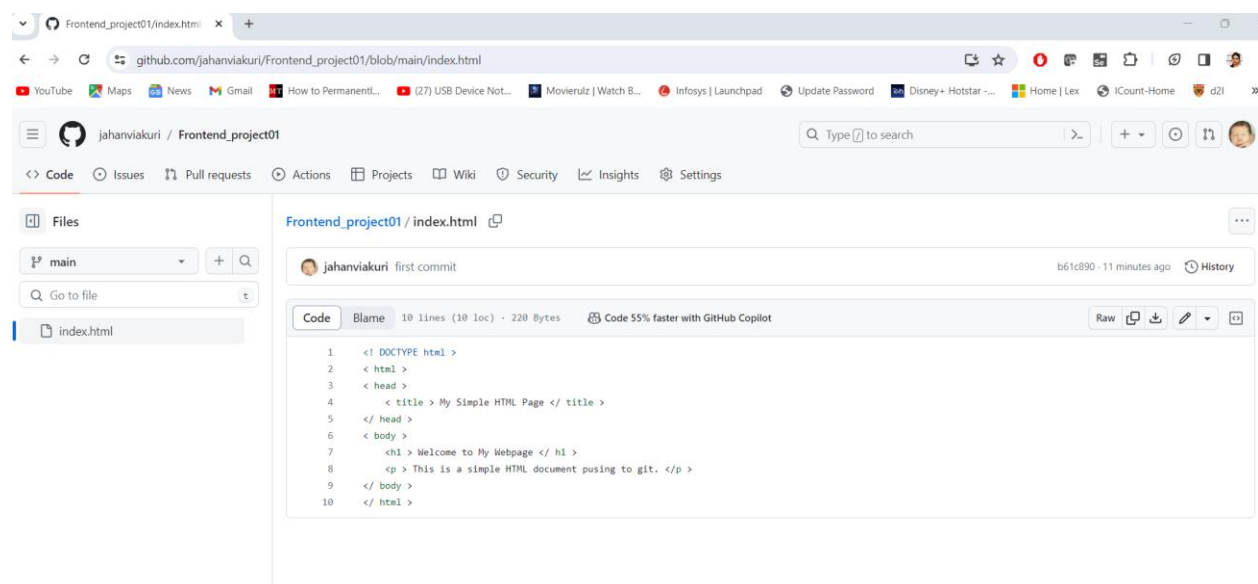
[5 marks. Sample answer. Accept any list. Please notice if they attached the source of the information. Any answer without reference is not acceptable.]

Browser	Percentage of Global Desktop Browser Market Share
Google Chrome	77.03%
Safari	8.87%
Mozilla Firefox	7.69%
Microsoft Edge	5.83%
Internet Explorer	2.15%
Opera	2.43%
QQ	1.98%
Sogou Explorer	1.76%
Yandex	0.91%
Brave	0.05%

Ref : <https://kinsta.com/browser-market-share/>

5.8.1

[10 marks. Sample solution. Compare the URL in the picture with the URL in the next question. If they are the same, then give the mark.]




5.8.2 Copy and paste the URL of your repository in the answer file, and make sure your repository is public.


[15 marks. Sample solution. You must press the link and be able to see the repository. Ignore the pictures. We just asked for the URL.]

https://github.com/jahanviakuri/Frontend_project0

General

Access

 Collaborators

 Moderation options

Code and automation

 Branches

Who has access

PUBLIC REPOSITORY

This repository is public and visible to anyone.

[Manage](#)

DIRECT ACCESS

0 collaborators have access to this repository. Only you can contribute to this repository.