



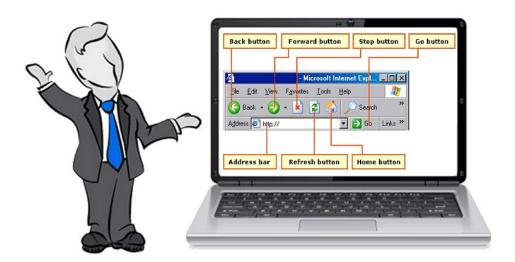
### **Practical -1**

**Aim:** Demonstration of Web Browsers: Different components, Checking SSL Certificates, Inspect Elements, Browser Console, view Source etc.

### **Components of a Web Browser:**

#### 1. User Interface

• It is an environment allowing users to use certain features like search bar, refresh button, menu, bookmarks, etc.



### 2. Browser Engine

• The bridge connects the interface and the engine. It monitors the rendition engine while manipulating the inputs coming from multiple user interfaces.

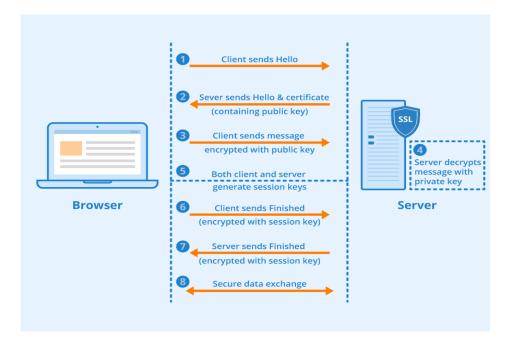






### 3. Networking

 The protocol provides an URL and manages all sorts of safety, privacy and communication. In addition, the store network traffic gets saved in retrieved documents.



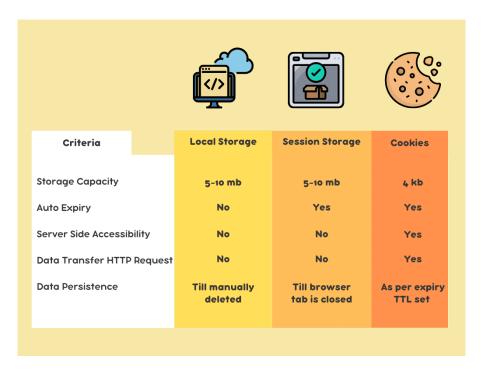
### 4. Data Storage

• The cookies store information as the data store is an uniform layer that the browsers use. Storage processes like IndexedDB, WebSQL, localStorage, etc



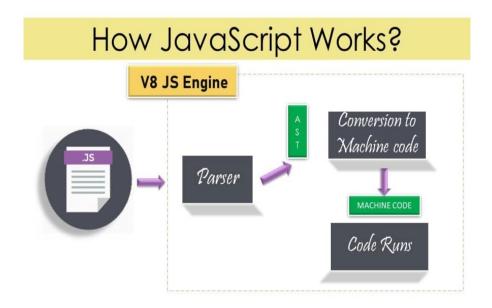


works well on browsers.



### 5. JavaScript Interpreter

• It allows conversion of JavaScript code in a document and the executes it. Then the engine shows the translation on the screen to the users.



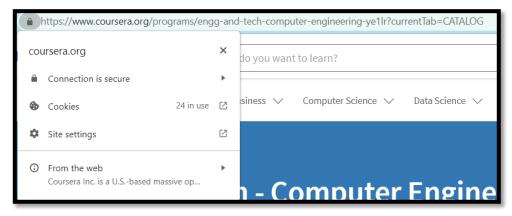


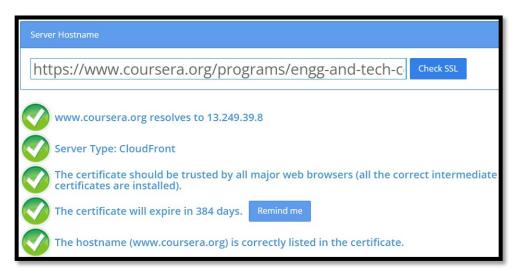


### Checking SSL Certificates:

• An SSL certificate is a digital certificate that authenticates a website's identity and enables an encrypted connection. SSL stands for Secure Sockets Layer, a security protocol that creates an encrypted link between a web server and a web browser.







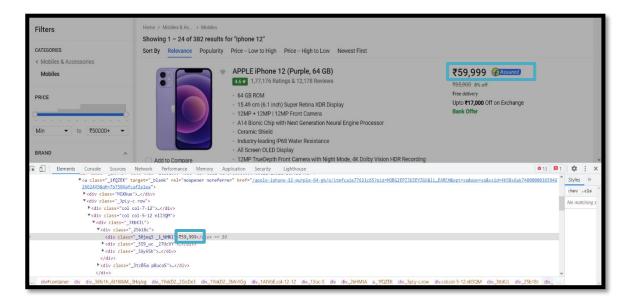




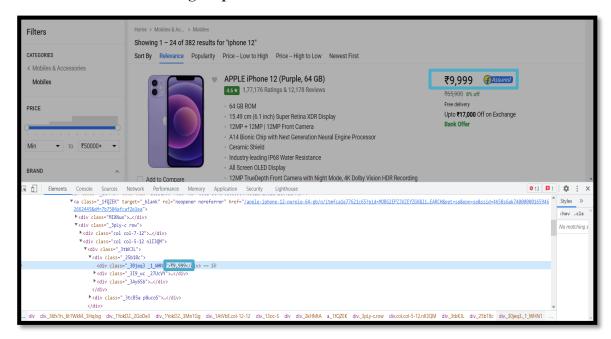
### Checking SSL Certificates :

Inspect element is a feature of modern web browsers that enables anyone to view
and edit a website's source code, including its HTML, CSS, JavaScript, and media
files. When the source code is modified with the inspect tool, the changes are
shown live inside the browser window.

#### **\*** Before using Inspect Element feature :



#### **After using Inspect Element feature:**







### **Browser Console:**

 The Browser Console is like the Web Console, but applied to the whole browser rather than a single content tab. So it logs the same sorts of information as the Web Console - network requests, JavaScript, CSS, and security errors and warnings, and messages explicitly logged by JavaScript code.





### **View Source:**

