PRN: 2019BTECS00071

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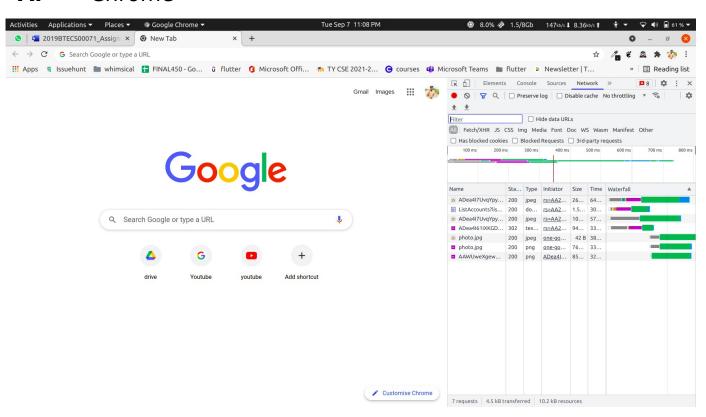
Practical No. 3 To study web browser and its Developer Tools option.

1. Problem Statement 1:

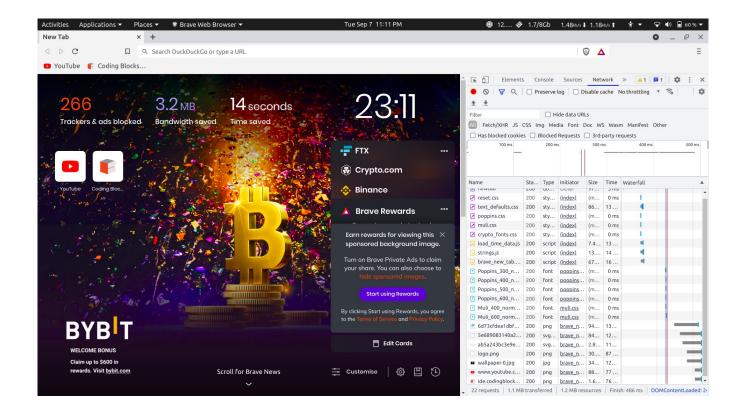
Install different web browsers on your machine. Go through the Developer Tools option of the browser.

Ans -

A. Chrome -

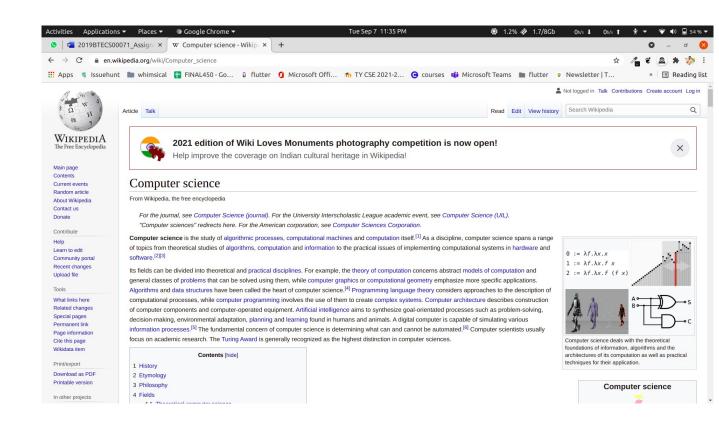


B. Brave -

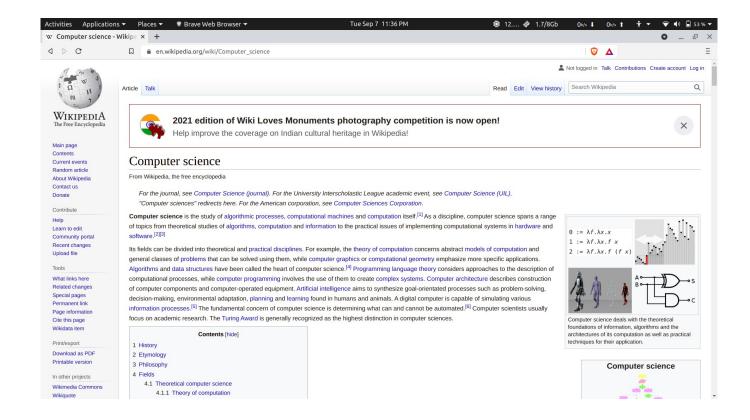


2. Problem Statement 2:

- 1. Visit https://en.wikipedia.org/wiki/Computer_science on various browsers.
 - a.On Chrome -



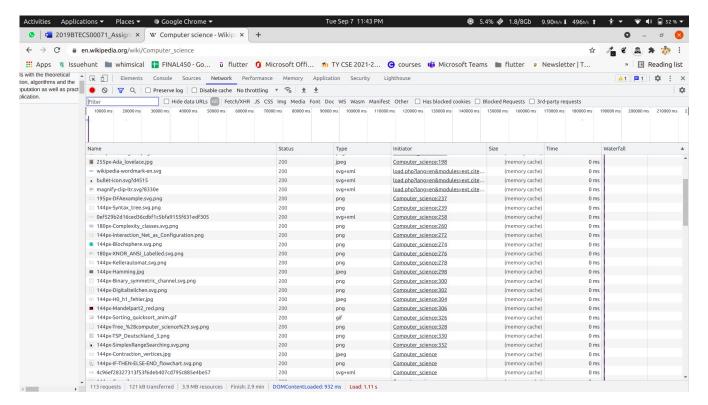
b.On Brave -



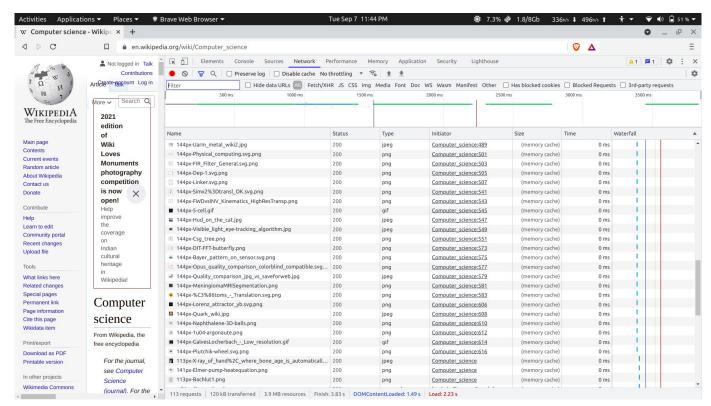
2.Using browser's Developer Tools option find out how many requests-response cycles are needed to load the page fully on your machine?

Ans:

Total **111** requests-response cycles are needed to load the page fully on Chrome.



Total **113**requests-response cycles are needed to load the page fully on Brave.



3. Using browser's Developer Tools option get the header information of the page.

```
X Headers
                                    Preview Response Initiator
                                                                                                                               Timing
                                                                                                                                                          Cookies
▼ General
       Request URL: https://en.wikipedia.org/wiki/Computer_science
       Request Method: GET
       Status Code: 9 304
       Remote Address: [2001:df2:e500:edla::1]:443
       Referrer Policy: strict-origin-when-cross-origin
       accept-ranges: bytes
       age: 7632
       cache-control: private, s-maxage=0, max-age=0, must-revalidate
       content-encoding: gzip
       content-language: en
       content-length: 70281
       content-type: text/html; charset=UTF-8
       date: Tue, 07 Sep 2021 16:14:05 GMT
       last-modified: Tue, 07 Sep 2021 16:01:14 GMT
       nel: { "report_to": "wm_nel", "max_age": 86400, "failure_fraction": 0.05, "success_fraction": 0.0}
       p3p: CP="See https://en.wikipedia.org/wiki/Special:CentralAutoLogin/P3P for more info."
       permissions-policy: interest-cohort=()
        \textbf{report-to:} \ \{ \ \texttt{"group": "wm\_nel", "max\_age": 86400, "endpoints": [ \{ \ \texttt{"url": "https://intake-logging.wikimedia.org/vl/events?stream and the stream and the str
       w3c.reportingapi.network_error&schema_uri=/w3c/reportingapi/network_error/1.0.0" }] }
       server: mw2338.codfw.wmnet
```

4. Using browser's Developer Tools option go through the DOM, CSS editor and JavaScript debugger options.

DOM -

```
Elements Console Sources
                                            Network
                                                       Performance
                                                                      Memory
                                                                                 Application Security
                                                                                                           Lighthouse 🛕 1 📮 1
                                                                      Styles Computed Layout Event Listeners DOM Breakpoints
<html class="client-js ve-available" lang="en" dir="ltr">
 <head>...
                                                                                                     No breakpoints
• ▼ <body class="mediawiki ltr sitedir-ltr mw-hide-empty-elt ns-0
ns-subject mw-editable page-Computer_science rootpage-Computer_s
cience skin-vector action-view skin-vector-legacy" cz-shortcut-
listen="true"> == $0
    <div id="mw-page-base" class="noprint"></div>
    <div id="mw-head-base" class="noprint"></div>
  ▶ <div id="content" class="mw-body" role="main">...</div>
  ▶ <div id="mw-data-after-content">...</div>
  ▶ <div id="mw-navigation">...</div>
  ▶ <footer id="footer" class="mw-footer" role="contentinfo">...
  </footer>
  ▶ <script>...</script>
  ▶ <script type="application/ld+json">...</script>
    <a accesskey="v" href="https://en.wikipedia.org/wiki/Compute</pre>
    r_science?action=edit" class="oo-ui-element-hidden"></a>
  </body>
</html>
```

CSS editor -

```
DOM Breakpoints
 Styles
         Computed Layout Event Listeners
Filter
                                                     :hov .cls + 4
element.style {
}
body {
                                                load.php?la..in=vector:1
  background-color: □#f6f6f6;
  overflow-y: scroll;
html, body {
                                                load.php?la..in=vector:1
  font-family: sans-serif;
html, body {
                                                load.php?la..in=vector:1
  height: 100%;
                                                load.php?la..in=vector:1
  margin: ▶ 0;
                                                  user agent stylesheet
  display: block;
  margin:→ 8px;
Inherited from html.client-js.ve-available
html {
                                                load.php?la..in=vector:1
  font-size: 100%;
                      margin
                         border
                             592.800×719.200
```

JavaScript Debugger -

