

PRN – 2020BTECS00211
Name – Aashita Gupta
Batch - T8
Programming Lab -3
Practical No. 3
(To study web browser and its Developer Tools option)

❖ **Problem Statement 1:**

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

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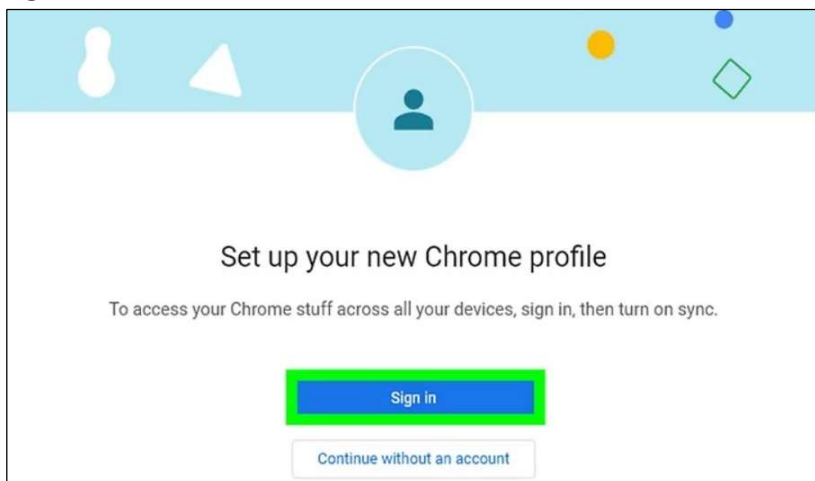
1. Google chrome:

-

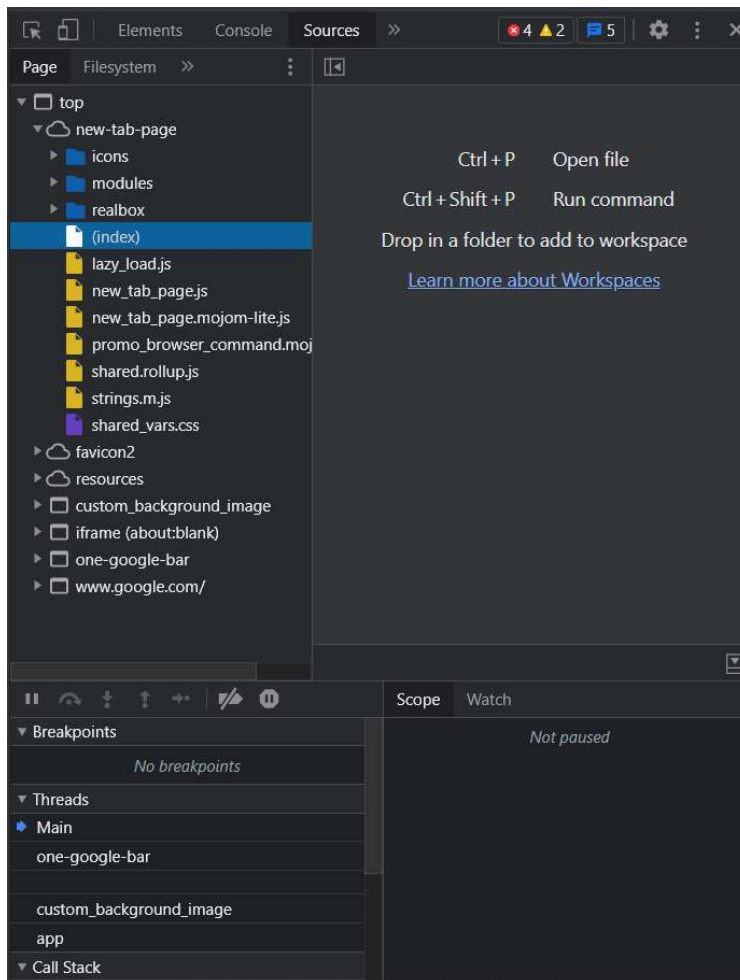
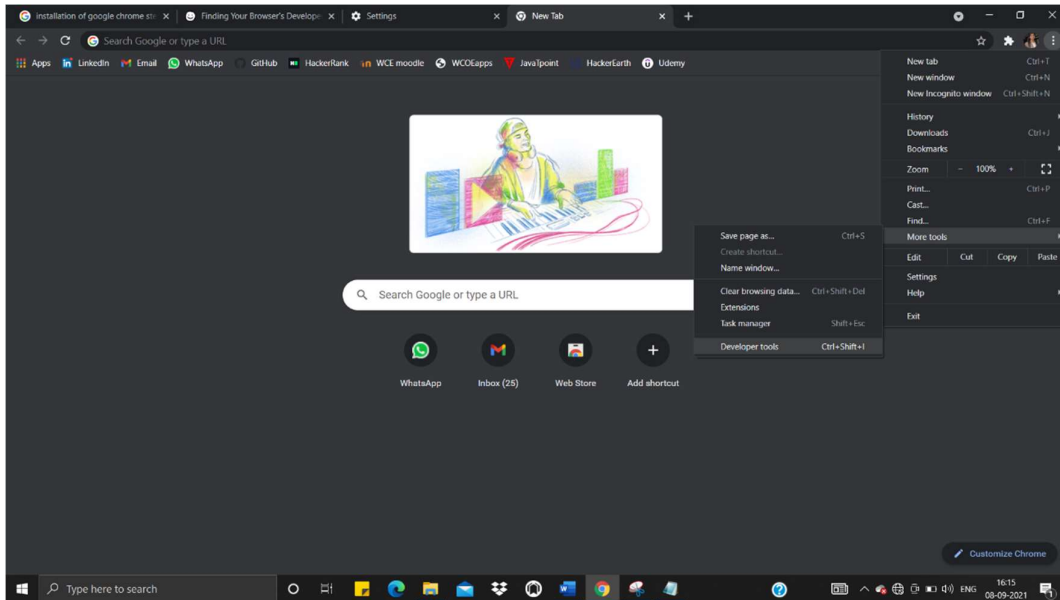
Download Google chrome and install it.



Sign in to an account.



To open the developer console in Google Chrome, open the Chrome Menu in the upper-right-hand corner of the browser window and select More Tools > Developer Tools.



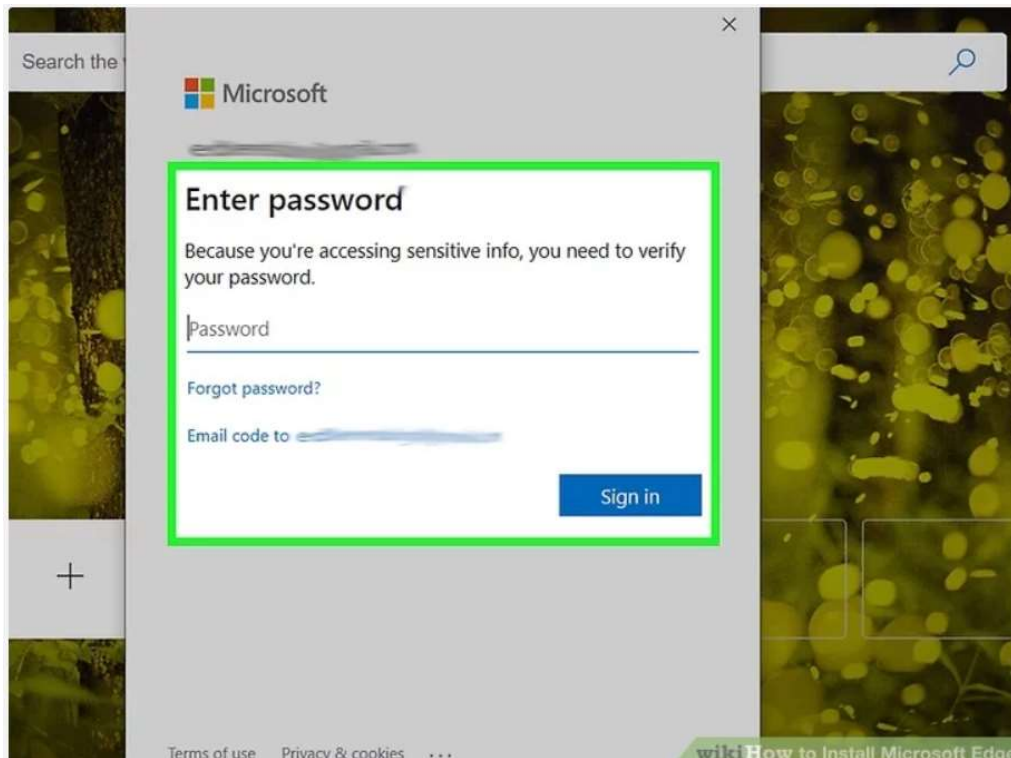
2. Microsoft Edge

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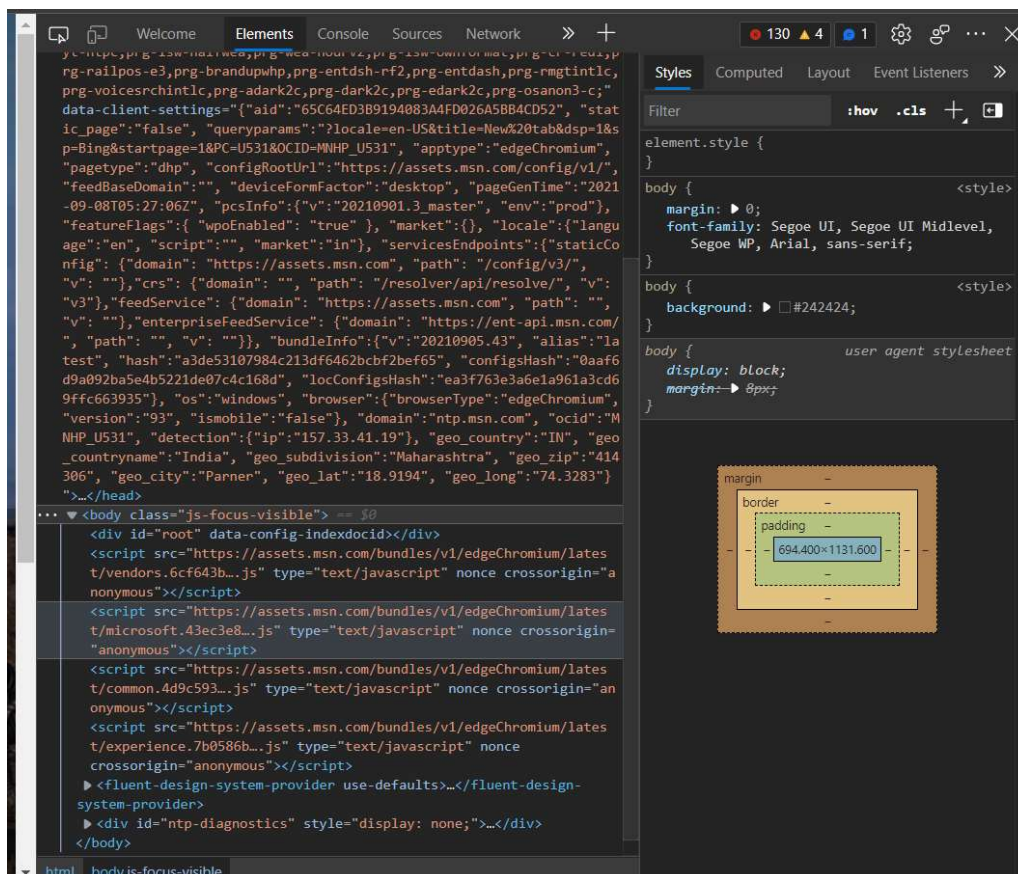
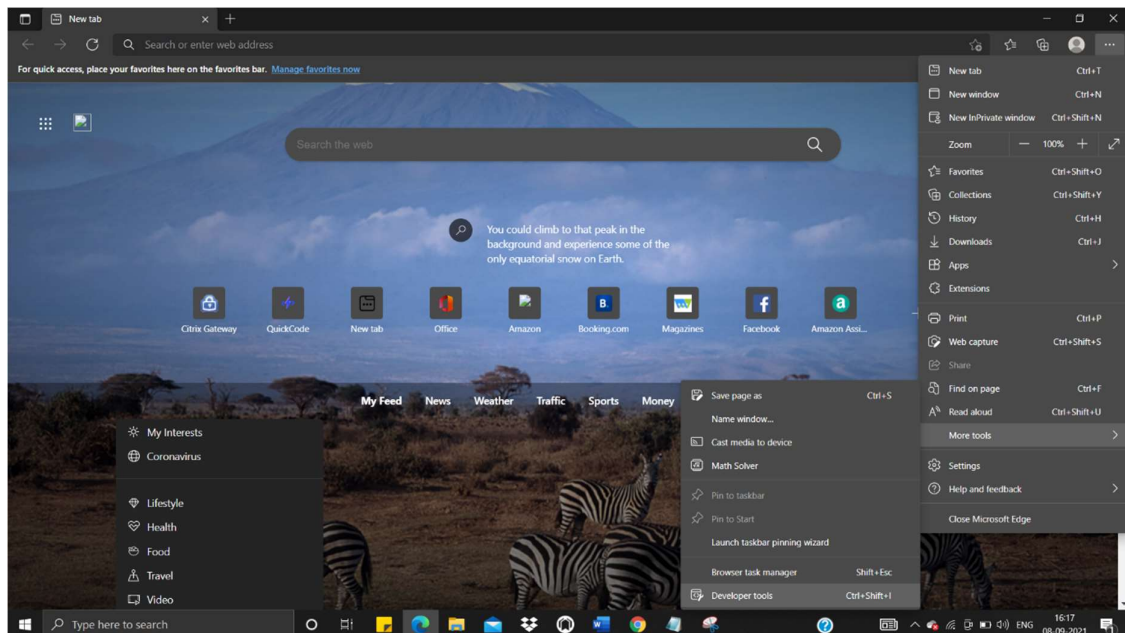
Download Microsoft Edge and install it.



Sign in with Microsoft email and password.



To open the developer console in Google Chrome, open the Chrome Menu in the upper-right-hand corner of the browser window and select **More Tools > Developer Tools**.



❖ Problem Statement 2:

1. Visit https://en.wikipedia.org/wiki/Computer_science on various browsers.
2. Using browser's Developer Tools option find out how many requests-response cycles are needed to load the page fully on your machine?
3. Using browser's Developer Tools option get the header information of the page.
4. Using browser's Developer Tools option go through the DOM, CSS editor and JavaScript debugger options

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- Using Google chrome browser:

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a)

Computer science - Wikipedia

en.wikipedia.org/wiki/Computer_science

2021 edition of Wiki Loves Monuments photography competition is now open!
Help improve the coverage on Indian cultural heritage in Wikipedia!

Computer science

From Wikipedia, the free encyclopedia

*For the journal, see [Computer Science \(journal\)](#). For the University Interscholastic League academic event, see [Computer Science \(UIL\)](#).
"Computer sciences" redirects here. For the American corporation, see [Computer Sciences Corporation](#).*

Computer science is the study of algorithmic processes, computational machines and computation itself.^[1] As a discipline, computer science spans a range of topics from theoretical studies of algorithms, computation and information to the practical issues of implementing computational systems in hardware and software.^{[2][3]}

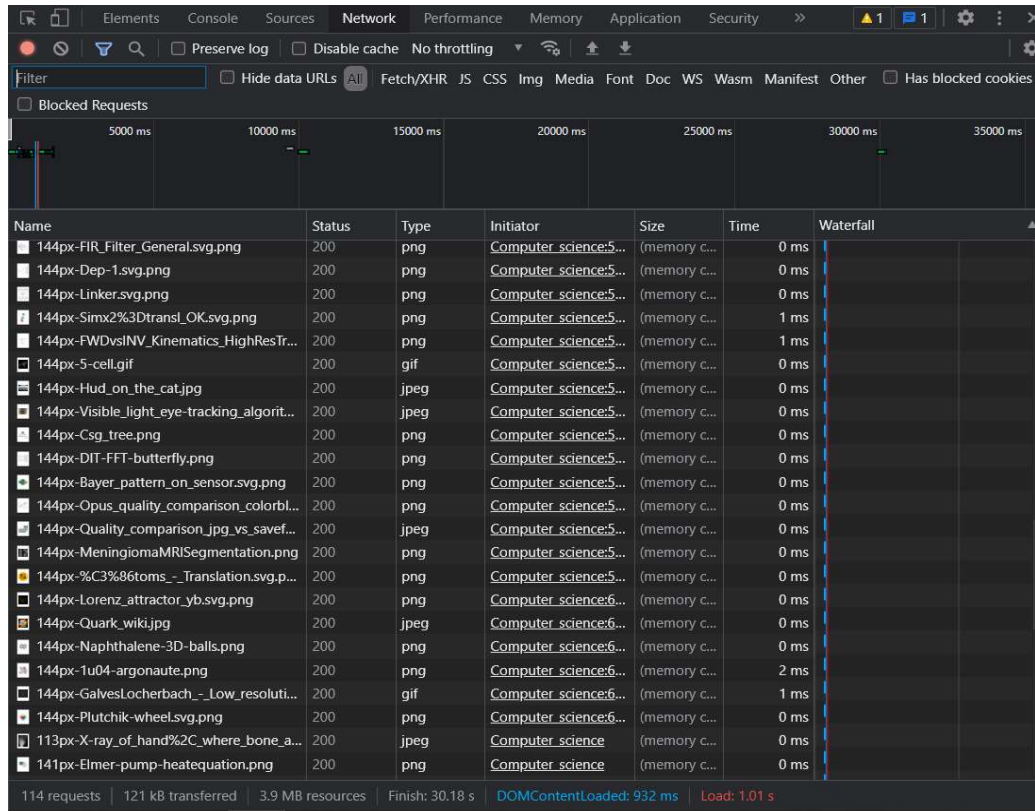
Its fields can be divided into theoretical and practical disciplines. For example, the theory of computation concerns abstract models of computation and general classes of problems that can be solved using them, while *computer graphics* or *computational geometry* emphasize more specific applications. Algorithms and data structures have been called the heart of computer science.^[4] Programming language theory considers approaches to the description of computational processes, while computer programming involves the use of them to create complex systems. Computer architecture describes construction of computer components and computer-operated equipment. Artificial intelligence aims to synthesize goal-orientated processes such as problem-solving, decision-making, environmental adaptation, planning and learning found in humans and animals. A digital computer is capable of simulating various information processes.^[5] The fundamental concern of computer science is determining what can and cannot be automated.^[6] Computer scientists usually focus on academic research. The Turing Award is generally recognized as the highest distinction in computer sciences.

Contents [hide]

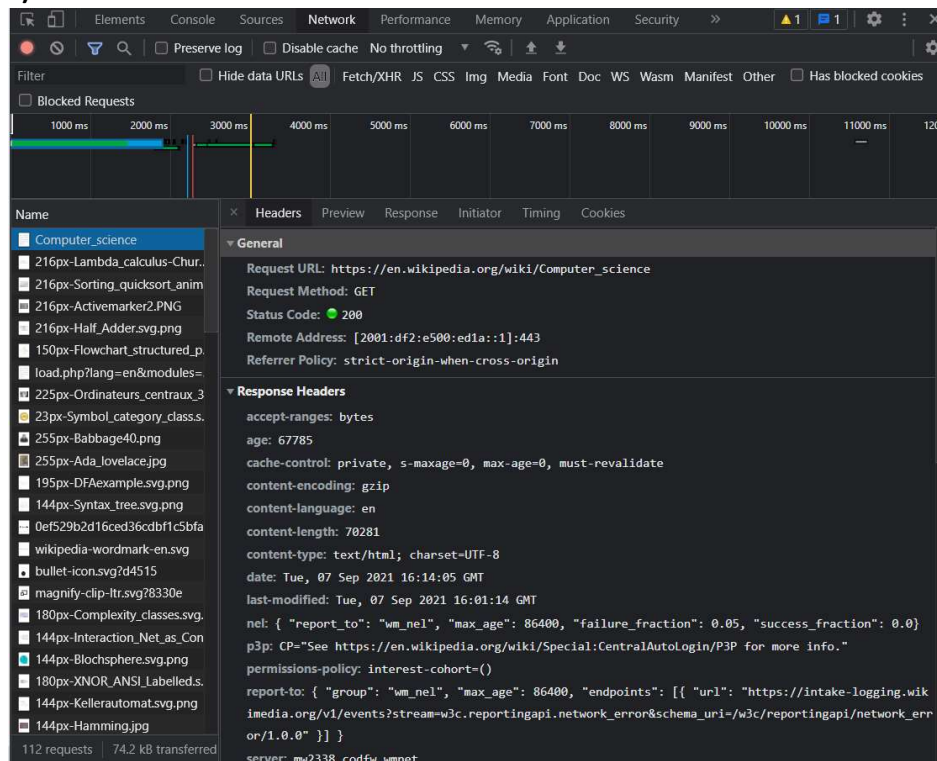
- 1 History
- 2 Etymology
- 3 Philosophy
- 4 Fields

Computer science deals with the theoretical foundations of information, algorithms and the architectures of its computation as well as practical techniques for their application.

b)



c)



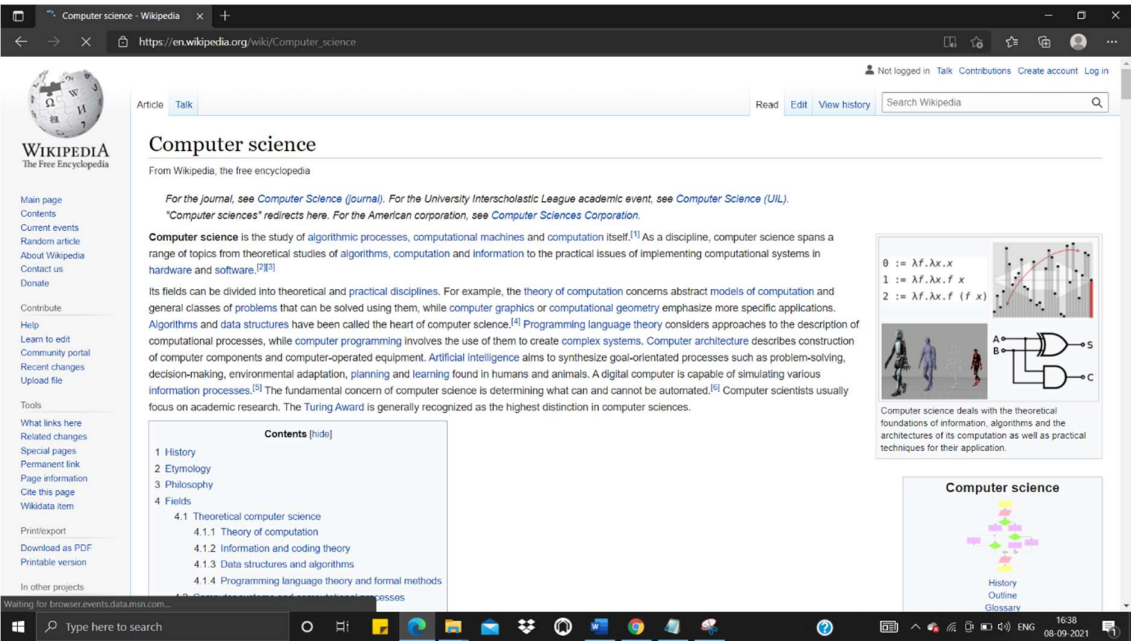
d)

The screenshot shows the Chrome DevTools interface. The 'Elements' panel on the left displays the HTML document structure. The 'Styles' panel on the right shows the CSS rules for the selected element, `.cbnnr-main`. The HTML structure includes a `<div id="siteNotice">` container, which contains a `<div id="centralNotice" class="cn-wlm2021">` and a `<div class="cbnnr-main">`. The `.cbnnr-main` style rules include a media query for `(min-width: 720px)` with properties like `padding: 15px;` and `min-height: 98px;`. Other rules include `position: relative;`, `clear: both;`, `padding: 10px;`, `background-color: white;`, `border: 1px solid #8F0000;`, and `min-height: 88px;`. The `div` element is styled with `display: block;` from the user agent stylesheet. The `#siteNotice` rules include `position: relative;`, `text-align: center;`, `margin: 0;`, and `font-size: 0.8em;`.

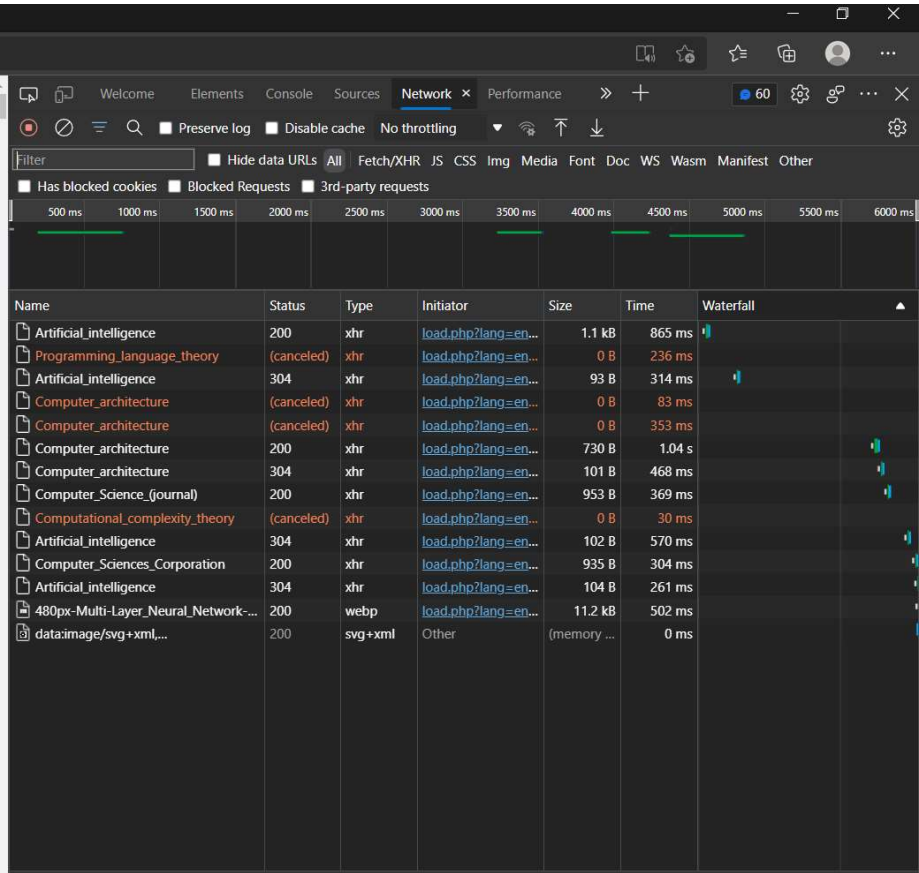
The screenshot shows the Chrome DevTools interface with the 'Console' panel selected. The console displays a message from JQMIGRATE: Migrate is installed with logging active, version 3.3.2. The URL bar shows the page is loaded from `load.php?lang=en&mod_r&version=8v0mf:145`. The console also shows a filter for '1 Issue' and '3 hidden' items.

• Using Microsoft Edge:

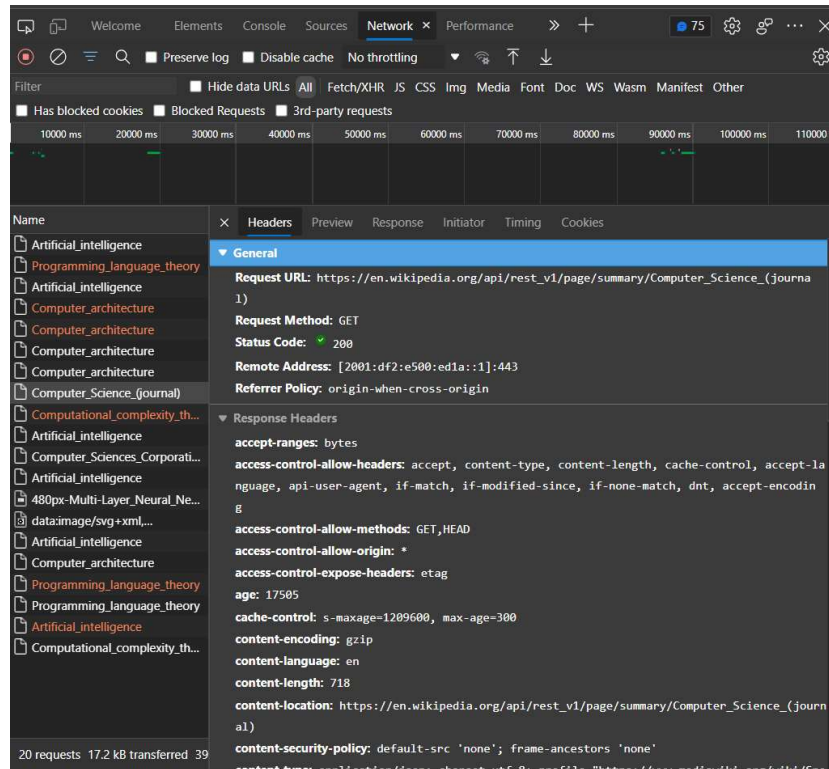
a)



b)



c)



d)

