Day 1

1. **Write a blog on Difference between HTTP1.1 vs HTTP2**
2. **Write a blog about objects and its internal representation in Javascript**
3. **codekata practice**
4. **Read about IP address, port, HTTP methods, MAC address**

1. **Write a blog on Difference between HTTP1.1 vs HTTP2**

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| **HTTP1** | **HTTP2** |
| Uses multiple connections for parallel requests, leading to potential bottlenecks and slower performance. | Introduces multiplexing, allowing multiple requests and responses to be sent and received on the same connection simultaneously, improving efficiency and reducing latency. |
| Uses text-based headers, which can be verbose and inefficient to parse. | Employs a binary protocol, which is more compact and efficient, reducing overhead and improving performance. |
| Headers are not compressed, leading to redundant data transmission and increased latency. | Utilizes header compression, reducing the size of headers and improving performance, especially for repeated requests. |
| Does not support server push, requiring the browser to request each resource individually. | Introduces server push, allowing the server to push resources to the browser without waiting for a request, reducing latency and improving page load times. |
| Does not support request prioritization, leading to potential issues with resource loading order. | Supports request prioritization, allowing the browser to specify the order in which resources should be loaded, improving user experience. |

1. **Write a blog about objects and its internal representation in Javascript**

JavaScript objects are collections of key-value pairs, where keys are strings and values can be any data type. Internally, objects store properties and methods in memory, with each property represented as a key-value pair. When accessing properties, JavaScript uses a process called "property lookup" to find the relevant key-value pair. Understanding this internal representation is crucial for efficient and effective coding in JavaScript.

1. **codekata practice**

Code Kata is a practice where programmers solve programming problems to improve their skills and proficiency. It involves repeated practice to master coding techniques and problem-solving abilities.  
**Like**: **Leetcode,Hackerrank**

1. **Read about IP address, port, HTTP methods, MAC address**

* **IP** **Address**: Unique identifier for devices on a network, used for communication.
* **Port**: Endpoint for data communication in a network, allowing multiple services on a single device.
* **HTTP** **Methods**: Actions used in web requests to interact with resources e.g., GET for fetching data, POST for submitting data.
* **MAC** **Address**: Unique hardware identifier for network devices, used for communication within a network segment.