Week 1 Tutorial Hour – Assignment submission

**Java Full Stack Installation Documentation**

1. Latest Version and Download Links

Java Development Kit (JDK):

* Latest version: JDK21 - https://www.oracle.com/in/java/technologies/downloads/#jdk21-windowsOpenJDK:

Integrated Development Environment (IDE):

* IntelliJ IDEA Community Edition - https://www.jetbrains.com/idea/download/?section=windows

2. Hardware and Software Requirements

Hardware: Minimum RAM: 4GB

Processor: Dual-core 2.0 GHz or higher

Disk Space: 10GB or more

Software:

* Operating System: Windows, macOS, or Linux
* Web Browser: Chrome, Firefox, or Safari

3. Tools and Configurations

Set up Java Environment Variables:

* Update JAVA\_HOME and PATH environment variables.

Integrated Development Environment (IDE) Setup:

* Configure IDE with JDK.
* Install necessary plugins for Java development.

**JavaScript Full Stack Installation Documentation**

1. Latest Version and Download Links

Node.js: Download - https://nodejs.org/en/download/current

Package Manager : npm - Included with Node.js

2. Hardware and Software Requirements

Hardware: Minimum RAM: 4GB

Processor: Dual-core 2.0 GHz or higher

Disk Space: 10GB or more

Software:

* Operating System: Windows, macOS, or Linux
* Web Browser: Chrome, Firefox, or Safari

3. Tools and Configurations

Node.js and npm Installation:

* Set up Node.js and ensure npm is available.

Code Editor:

* Visual Studio Code: Download - https://code.visualstudio.com/

4. Sample App Development

Initialize a Node.js Project:

* Use npm init to create a package.json file.

Backend Development:

* Use a framework like Express.js for server-side development.
* Integrate with databases using MongoDB, MySQL, or other options.

Frontend Development:

* Use HTML, CSS, and JavaScript for static pages.
* Choose a frontend framework/library like React, Angular, or Vue.js.

Integration:

* Connect frontend and backend using RESTful APIs.
* Ensure communication between layers.

Build and Run: Use npm scripts to build and run the project.