WEEK 2

Introduction and software requirements for HTML/Javascript PHP programs:

|  |
| --- |
| 1# What are the softwares that helps to run java programs. |

**Java Development Kit (JDK)** – Needed to write, compile, and run Java programs.

**Java Runtime Environment (JRE)** – Needed to run Java applications.

**Integrated Development Environment (IDE)** – Tools like Eclipse, NetBeans, IntelliJ IDEA make coding easier.

**Command Prompt / Terminal** – Can be used to compile and run Java programs without an IDE.

|  |
| --- |
| 2# What is JDK and JRE. |

**JDK (Java Development Kit)** – A software package that includes tools to develop Java programs, such as compiler (javac), debugger, and JRE.

**JRE (Java Runtime Environment)** – Provides the libraries, Java Virtual Machine (JVM), and other components to run Java applications. JRE does **not** include development tools like the compiler.

|  |
| --- |
| 3# What is eclipse IDE. |

Eclipse IDE is a free, open-source Integrated Development Environment used for Java and other programming languages. It provides code editors, debugging tools, project management, and plugins to make software development easier.

|  |
| --- |
| 4# How to run the java program in eclipse/netbeans IDE. |

**In Eclipse:**

* Open Eclipse and create a new Java Project **(File → New → Java Project).**
* Create a new Java Class **(File → New → Class).**
* Write your Java code in the editor.
* Save the file.
* Click the green Run button or press **Ctrl + F11** to execute the program.

**In NetBeans:**

* Open NetBeans and create a new Java Application **(File → New Project → Java Application).**
* Write your Java code in the main method.
* Save the file.
* Click the green Run button or press **Shift + F6** to run the program.