**Assignment 2**

1.Difference between SDK, JDK and JRE?

Software development kit is a set of development tools that allow applications to be created for certain software packages or platforms.

Java development kit is an extension of SDK and is responsible for writing and running Java Programs.

Java runtime environment is a java execution environment by oracle which is used to execute Java Bytecode.

2.Difference between 3 tools eclipse/junit/intelliJ?

The main difference between Eclipse and IntelliJ lies in their intended use. While IntelliJ is a Java IDE for professionals and students, Eclipse focuses on open-source development with its wide range of optimized IDEs. Compared to IntelliJ IDEA, Eclipse comes in 40+ languages. Also, it is a bigger project than IntelliJ IDEA. While IntelliJ focuses primarily on Java and JVM languages (like Kotlin and Scala) Eclipse offers support for non-JVM languages too, such as C, C++, Julia, and Perl. IntelliJ IDEA offers the Community Edition as the production-ready variant of its IDE while no commercial IDE is offered by Eclipse. Unlike IntelliJ IDEA, Eclipse is also available as a cloud-based IDE.

3.Get shortcuts for your Java tool?

File Navigation – Eclipse Shortcuts

CTRL SHIFT R – Open a resource. You need not know the path and just part of the file name is enough.

CTRL E – Open a file (editor) from within the list of all open files.

CTRL PAGE UP or PAGE DOWN – Navigate to previous or next file from within the list of all open files.

ALT <- or ALT -> – Go to previous or next edit positions from editor history list.

Java Editing – Eclipse Shortcuts

CTRL SPACE – Type assist

CTRL SHIFT F – Format code.

CTRL O – List all methods of the class and again CTRL O lists including inherited methods.

CTRL SHIFT O – Organize imports.

CTRL SHIFT U – Find reference in file.

CTRL / – Comment a line.

F3 – Go to the declaration of the variable.

F4 – Show type hierarchy of on a class.

CTRL T – Show inheritance tree of current token.

SHIFT F2 – Show Javadoc for current element.

ALT SHIFT Z – Enclose block in try-catch.

General Editing – Eclipse Shortcuts

F12 – Focus on current editor.

CTRL L – Go to line number.

CTRL D – Delete a line.

CTRL <- or -> – Move one element left or right.

CTRL M – Maximize editor.

CTRL SHIFT P – Go to the matching parenthesis.

Debug, Run – Eclipse Shortcuts

CTRL. or – Navigate to next or previous error.

F5 – Step into.

F6 – Step over.

F8 – Resume

CTRL Q – Inspect.

CTRL F11 – Run last run program.

CTRL 1 – Quick fix code.

Search – Eclipse Shortcuts

CTRL SHIFT G – Search for current cursor positioned word reference in workspace

CTRL H – Java search in workspace.

4.What are ascii Values?

ASCII is a 7-bit character set containing 128 characters. It contains the numbers from 0-9, the upper- and lower-case English letters from A to Z, and some special characters. The character sets used in modern computers, in HTML, and on the Internet, are all based on ASCII.