**Instructions**: You must read the material and create an outline of the topics in your OWN words.  Do not copy the text from the tutorials into your notes. Make sure your outline contains notes for each subsection of the reading assignment. Thoroughly cover each topic to show you have a firm understanding of the programming concept or construct.

| **Ques** | **NOTES:** |
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| Debugging the Eclipse IDE for Java Developers  Switch Statement in Java | **Debugging** is a fundamental skill needed by every coder, it is the skill that helps coders to trace, find and fix or remove abnormalities or errors that sometimes might not be visible even during code reviews.   * The use of **Alt+Shift+D,J** or right clicking the editor class will create a debug launch configuration. The Hot Code Replacement (HCR) function makes it possible to edit and save code without restarting the program. * Occasionally, lines in a code a code may be wrong, **BREAKPOINTS** can be used as a tool to analyse these lines of codes where the program execution will be stopped and inspection can be carried out on values and variables in the given line. * Eclipse has an additional feature the **DEBUG PERSPECTIVE** which is a collection of views and editors consisting of debug view, breakpoints view, variable/expression view, display view, and console view. These underlying features are used for application troubleshooting. Users receive a prompt to switch to debug perspective once the debug mode is started. * Eclipse provides buttons in the toolbar which have associated key binding shortcuts called **STEPPING COMMANDS** which help to debug and execute codes line by line. Examples are; F5(step into), F6(step over), F7(step return), F8(resume), Ctrl+R(run to line), Shift+F5(use step filters) and many more.   This is similar with the “if-else-if” statement, but more concise and effective.It is a multi-way branching statement that allows the execution of code blocks based on value of a variable which can be either any primitive data types (byte, short, char, int, long, float, double, and boolean). This is all possible as long as all engaging rules of a switch statement are being observed. |
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