**FACILITATOR’S MANUAL**

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| **AIM** – of this trainer manual is to provide a guideline to facilitator. Guideline of which all topics /sub-topics to be covered and its sequence, when to go for hands-on and recap. Basically WHAT–WHEN-HOW  Whole session will be in multiple iteration of 3 steps;  1. What to facilitate, 2. Relevant LAB assignments, 3. Recap and leanings from LAB  Also, there are TIPS (extract from facilitator’s learning) – objective of TIPS is to incorporate best practice and individual’s innovation in facilitating a particular topic. It is desirable that new tips should continue to add/update in this manual. |

**Java – Getting started**

**Objective -**  To understand benefit of JAVA, how Java is platform independence, concept of JVM, how to write a java class, java source file, compile and run a java program, main method (starting point of java program), comments in java and command line argument

**ROUND 1**

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| Topics to be facilitated (teach) | * Introduction of Java and its benefits * Byte code and platform independencies concepts * Concept of **JVM** * Writing a java class * Convention of java class name * Java source file * Basic **code writing concepts** like class, { }, comments, method signature, etc * Main method of a class (public static void main(String arg[]) * Compile a java source file in java class * Run it |
| LAB assignment | **Refer - LAB 1.1**  *Write java program (Class) which will print/display, a message on console. There should be proper comments.* |
| Recap (learning from the LAB assignment) | How to write a java class  Name of source file and public class should be same  How to compile and run a java file  Main method is starting point of a java class, without it program will not run  It is convention to start a class name with CAPITAL letter |

**ROUND 2**

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| Topics to be facilitated (teach) | * Use of spring source toolkit (STS) for coding * Work start on STS - Create a work space and then java project \* |
| LAB assignment | **Re-write LAB 1.1 in editor (STS)** |
| Recap (learning from the LAB assignment) | How to use editor for java coding |

\*TIPS TIME – while creating workspace and java project, ask associate/participant to check the same in their system, if the files and folder are automatically creating in the respective (defined location) in their system.

**ROUND 3**

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| Topics to be facilitated (teach) | * Command line argument |
| LAB assignment | **Ref - LAB 1.2**  *Write java program (Class) which will print/display, a message along with name of user on console. The name of the user will be passed to the program as run time argument (command line argument).*  **LAB 1 .3**  *Modify Lab 1.2, and now pass two arguments and print them.*  **LAB 1 .4**  *Now pass a whole sentence, and system should consider space as space and not an indication for next argument* |
| Recap (learning from the LAB assignment) | How to send command line argument OR run time argument  How to receive it and use it |