**Covers**

1. Java Language basics , loops , data types, statements, naming/coding convention, loggers, eclipse debugging,java docs and comments

# **Instructions:**

1. Use eclipse for each activity
2. Use proper naming conventions in all the assignments
3. For the last 3 assignments [ 4-6 ] print proper log statements (java.util.logging : create separate log files for each assignments ), javadocs and insert comments wherever needed
4. Debug last 2 assignments & attach screenshots of the same. Play with breakpoints !
5. **Duration:** 2.5 hour

## Deliverable

1. All six programs committed in the repository
2. Screenshots

## Assignment

1. Create a new workspace “my-workspace”  
   All source files should reside within the projects in the workspace  
   Create a new Java project - “JavaBasicAssignment\_<YOUR\_NAME>”  
    **Estimated Effort :10 min**

**Estimated effort for next 3 assignments : 90 min**

1. Write a java program to print following output:  
    0  
              1 0 1  
            2 1 0 1 2  
          3 2 1 0 1 2 3  
        4 3 2 1 0 1 2 3 4  
      5 4 3 2 1 0 1 2 3 4 5
2. Print all the characters present in the given string only once in a reverse order:  
   Input : aabcdaafhbdr  
   output : rdbhfac  
   void manipulateString(String input)
3. Instantiate an int array of size 100. Populate it with random values.

* Iterate and print the array using for i = 0 style of loop
* Iterate and print the array using for each style of loop

**Estimated time for next 2 assignments : 50 min**

1. Write a java program to display a  Fibonacci sequence (1,1,2,3,5,8,13,....) upto 50 numbers and print the sequence . Solve this  problem using both recursive and iterative approaches .
2. Print the table of a given number. Implement this function signature and call it from main()  
   void tablePrint(int n)  
   Output should be in format, for say n = 3:-  
   3 x 1 = 3   
   3 x 2 = 6 .. and so on

## References

1. http://download.oracle.com/javase/tutorial/index.html