**7COM1015 Programming and Program Design Semester A**

**Cwk Test Specification**

**Duration : 1hr 30mins Max Marks: 100**

**Topics**

This test will cover the topics developed in Units 1 – 8

1. Basic syntax, variables, data types, operators, assignment statements
2. Sequence, selection, booleans
3. Input & output, JOptionPane
4. Iteration (loops) using while/for, combining iteration & selection, Strings
5. Arrays
6. Functions: definitions, parameters, function call
7. Complex programs

**Skills**

It is expected that by completing the exercises for each of these units, you will have developed the skills in writing code which performs the following types of operations from specifications:

* declares variables
* performs specified calculations
* stores and prints results
* uses selection
* repeats sets of operations
* defines functions
* calls functions
* handles input

**Test Requirements:**

You will be expected to:

* write Java code using the **BlueJ (**with a template**)**
* save your code
* submit file/s to Studynet

During the process of developing solutions, you will be expected to:

* type in code to produce programs specified in the test
* use the BlueJ interface to run your code
* test and de-bug your code to ensure it meets the specifications provided
* download code from Studynet
* adapt code to produce new applications

NOTE:

* This is not a “knowledge”-based test, but a “skills”- based one. To prepare, you should make sure you have completed all of the exercises in Units 1 -8 (and set challenges of your own).
* This is an OPEN Book test.
* You CAN consult anything saved in your UH user area, on Studynet, or paper-based.
* You CANNOT consult the Internet or communicate electronically with other people