T322: ICT102 Introduction to Programming Tutorial -2

**Topic: Java Fundamentals: I/O, Data Types and Operators Submission: Submit your .java file to Moodle**

# Description:

*This tutorial will introduce you to Java fundamentals such as basic primitive type, operators and I/O.*

# Exercise 1: Working with assignment statements

First estimate the below expressions manually and then output each on the console using

# System.out.println().

Discuss why the outputs are different

1. "This shows the wrong current year: " + (20 +22)
2. "This is the correct year: " + 20 + 22
3. 20+22+ ” The wrong year again "

**Answer:**

The answer is in the file.

# Exercise 2: I/O Program

Modify the following program so it prints 1 tab between each word and 2 blank line between each line of text

# class MyPrintingProgram

**{**

# public static void main(String[] args)

**{**

# System.out.println("L1 Word1 Word2 Word3"); System.out.print("L2 Word4 Word5 Word6"); System.out.print("\n L3 Word7 Word8 Word9");

**}**

# }

**Exercise 3: Programming task**

Write a java program that does the following:

* 1. Declare 3 variables:
     + An int variable ‘qty’
     + A double variable ‘price’
     + A string variable ‘name’
  2. Store quantity , price and name of a product in these variables by assigning literal values to these variables.
  3. The program should display these values on the screen as follows, using a mix of text and above variables

Product Name is TheProduct, its price is $45 You bought 150 quantity.

**Answer:**

The answer is in the file

# Submission Task – (Grade 1%)

Follow the same steps as in Exercise 3, but change the step 2 to ask the user for input for these values by using Scanner class.

**Answer**:

The answer is in the file.