

## CS175: Programming in Java 2016/17

### LAB Questions - SET 2      10 March 2017

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**Note:** All questions should be tested (compile and run). You can use command window or Java IDE.

#### **Question 1**

Write a program called `Tutorial02.java` that displays your first name, last name, Registration number, and study Program, each on a separate line. **Sample** of display should be as follows:

```
First name:  Mwanaidi
Last name:   Kasango
Reg. Number: 2016-04-05450
Program:     Computer Engineering and Information Technology
```

#### **Question 2**

Modify code of question 1 (within the same file) so that there is a blank line for each of the above information as follows:

```
First name:  Mwanaidi

Last name:   Kasango

Reg. Number: 2016-04-05450

Program:     Computer Engineering and Information Technology
```

#### **Question 3**

Modify code of question 2 to add two more lines at the end of display. The two lines should display **College of Information and Communication Technologies** in two lines. The first line should end with **Information**. Use method `System.out.println`. Sample is:

```
..... // same lines as in Question 2
College: College of Information
         and Communication Technologies
```

#### **Question 4**

Modify code of question 3 but now use the method `System.out.printf` and `%s` format specifiers to display the last two lines.

#### **Question 5**

Modify code of question 4 to add a line at the end of display which displays the value of pi to 6 decimal places using method `System.out.printf`. **Hint:** Create a constant as follows:

```
final float PI= 3.1415926535898F;
```

refer to `FindCost.java` in Lab SET 1 to see where you place variables. **final** is a reserved word to make PI identifier to be a constant. Format of display for the last line should be:

Value of pi to 6 decimal places is: .....

**== END ==**