

Computer Science 2A Practical Assignment 02 2016-02-23

Time: Deadline — 2016-02-23 16h30 Marks: 50

This practical assignment must be uploaded to eve.uj.ac.za <u>before</u> 2016-02-23 16h30. Late or incorrect submissions <u>will not be accepted</u>, and will therefore not be marked. You are **not allowed to collaborate** with any other student.

Good coding practices include a proper coding convention and a good use of JavaDoc comments. Marks will be deducted if these are not present. Every submission **must** include a batch file. See the reminder page for more details.

The Java Development Kit (JDK) has been installed on the laboratory computers along with the Eclipse Integrated Development Environment (IDE).

This practical aims to familiarise you with JavaDoc commenting, UML class diagrams and packages.

Using the classes that were created in Practical01 complete the following:

- Place the UJString and EncryptedString classes into the acsse.csc2a.practical02 package.
- 2. Provide full source comments for the **UJString** and **EncryptedString** classes.¹
- 3. Provide full JavaDoc comments for the **UJString** and **EncryptedString** classes.
- 4. Create UML class diagrams for the ${\bf UJString}$ and ${\bf EncryptedString}$ classes. 2

¹Hint: inline code comments

²Hint: remember to submit as PDF.

Marksheet

1.	UML class diagrams	[05]
2.	Packages	[05]
3.	Source comments	[05]
4.	JavaDoc comments	[10]
5.	Coding convention (structure, layout, OO design)	[05]
6.	Correct execution	[20]

NB

Submissions which do not compile will be capped at 40%

Execution marks are awarded for a correctly functioning application and not for having some related code.

Reminder

Your submission must follow the naming convention as set out in the general learning guide.

SURNAME INITIALS STUDENTNUMBER SUBJECTCODE YEAR PRACTICALNUMBER

Example

Surname	Berners-Lee
Initials	TJ
Student number	209912345
Module Code	CSC2A10
Current Year	2016
Practical number	P00

Berners-Lee_TJ_209912345_CSC2A10_2016_P00

Your submission must include the following folders:

- bin (Required) Should be empty at submission but will contain runnable binaries when your submission is compiled.
- docs (Required) Contains the batch file to compile your solution, UML diagrams, and any additional documentation files. Do not include generated JavaDoc.
- src (Required) Contains all relevant source code. Source code must be places in relevant sub-packages!
- data (Optional) Contains all data files needed to run your solution.
- lib (Optional) Contains all libraries needed to compile your solution.

NB

Every submission **must** include a batch file. This batch files must contain commands which will compile your Java application source code, compile the associated application JavaDoc and run the application. **Do not** include generated JavaDoc in your submission. All of the classes/methods which were created/updated need to have JavaDoc comments.