**ISD lab sheet week 1**

Create your logbook document, based on the template provided.

Start your logbook by answering the following questions:

Answer the following questions (in writing) to reflect on the contents of the lecture today. You can use the lecture slides as well as any source you find online, however, if you use an online source, please briefly mention it in your answer (like “as seen on <https://www.python.org/>”).

Elaborate in your answers where you are asked to explain something. Your answers will be part of your logbook (once we have set it up) and therefore please store your answer document (preferable .doc or .docx) on your UWL cloud storage (see lecture slides) or wherever convenient for you.

Your answer document should be at least a page long. You can write more but also keep your answers concise.

Questions:

1. What is a code repository (often also called version control system) used for?
2. Why is it advantageous to use a code repository?
3. Describe the different “layers” of Software that exist on a typical computer and explain why there are different layers of software.
4. Describe what an algorithm is and explain why it is a useful “tool” to translate from a human level problem (we can think of) to a computer program.

Q1. What is a code repository?

A code repository is a file archive or web hosting facility, where code sheets for web pages or software can be stored, either publicly or privately. Software developers or web page developers often use code repositories in their projects, as they can keep and host code sheets in an organised fashion.

Q2. Why is it advantageous to use a code repository?

Code repositories have many features that can help developers, such as:

Code reviewing, bug tracking, web hosting, and even translation systems.

They also let you store code sheets and never lose them.

Q3. Describe the different “layers” of Software that exist on a typical computer and explain why there are different layers of software.

There are 2 software layers that exist on a typical computer: System Software and Application software.

System software are the programs that make a computer work. They manage the basic operations of a computer, and make the hardware work through drivers.

Application software are programs that we use everyday for various tasks. Such task may be editing a picture, in which case we use Adobe Photoshop. Or if it’s about video editing, in which case we can use Camtasia Studio, Sony Vegas or even Adobe After Effects.

Q4. Describe what an algorithm is and explain why it is a useful “tool” to translate from a human level problem (we can think of) to a computer program.

An algorithm is a process or set of rules that are followed to complete a task. They usually refer to problem solving operations done by a computer.

A good example of such an algorithm is sorting a list of names alphabetically.

(used online sources: Wikipedia)