Week Report 3

Summary of presentations:

Exploring Desktop Environments

1. bulleted list of different desktop environments

   - GNOME
   - KDE
   - XFCE
   - MATE
   - BUDGIE
   - LXDE
   - Cinammon
   - OpenBox
   - LXQT
   - Pantheon
   - Deeping DE
   - Fluxbox

2. Definitions for the following terms: **GUI**, **DE**

   > *GUI:* A graphical user interface is a set of programs that allows a user to interact with the computer system via icons, windows, and various other visual elements.

   > *DE:* A desktop environment is an implementation of the desktop metaphor made of a bundle of programs running on top of a computer operating system, which shares a common GUI, sometimes described as a graphical shell.

3. Bulleted list of the common elements of a desktop environment

   - Desktop Settings
   - Display Manager
   - File Manager
   - Icons
   - Favorite Bar
   - Launcher
   - Menus
   - Panels
   - System Tray
   - Widgets
   - Window Manager

The Bash Shell

1. What is a shell?

   > A `Shell` is a program that provides an interface between a user and an operating system
   > kernel.

2. List different shells

   - Bash Shell
   - Zsh Shell
   - Ksh Shell
   - Fish Shell
   - Csh Shell

3. List some bash shortcuts (no more than 10 and no less than 5)

   `Alt + T` - go to the start of the command line

   `Ctrl + E` - go to the end of the command line

   `Ctrl + K` - delete from cursor to the end to the command line

   `Ctrl + Y`- paste word or text that was cut using one of the deletion shortcuts (such as the one
   above) after the cursor

   `Ctrl + C` - terminate the command

   `Ctrl + Z` - suspend/stop the command

   `!!` - run last command

4. List basic commands and their usage

   `date` - displays the current time and date

   `cal` - displays a calendar of the current month

   `free` - displays the amount of free memory

   `clear` - clears the screen

Managing Software

- Command for updating ubuntu
  `sudo apt update; sudo apt upgrade; sudo apt full-upgrade -y`

- Command for installing software

```
sudo apt install "package name" -y
```

Install several programs in a single command

```
sudo apt install firefox flameshot caffeine -y
```

- Command for removing software

```
sudo apt remove "package name" -y
```

Remove several programs in a single command

```
sudo apt remove firefox flameshot caffeine -y
```

- Command for searching for software

```
apt search "package name"
```

Install and remove programs in a single command

```
sudo apt install firefox+ flameshot- caffeine- vlc+
```

Definition of the following terms:

Package - are archives that contain binaries of software, configuration files, and information about dependencies. (In Windows, there are commonly .**exe** files)

Think of a package as a box containing all the necessary stuff to install the program you want.

Library - reusable code that can be used by more than one function or program.

Repository - a large collection of software available for download.