CS4215 Programming Language Implementation

Lab task for Week 02/03 OCaml Refresher Exercise

1. Please download the following two files from IVLE workbin

lab03.ml
lab03-extra.ml

The first file contains a series of small exercises and you have to hand in by January 29, 23:59 on IVLE workbin. The second file contains two optional exercises. You may do it for more practice.

- 2. Let us first look at three different ways of executing OCaml code. After you have unzipped the files, you will see the execution/compilation commands in comp.sh. This can be executed using sh comp.sh. The commands are:
 - For OCaml interpreter in interactive mode. First execute ocaml. After that load the file using # use "lec03.ml";;. You will see the definitions and commands executed. You may then test the individual methods written using # mn e1 .. en;;. To quite, just type # quit;;.
 - For OCaml interpreter in batch mode, execute it using ocaml lec03.ml. Take note that only commands, such as print_endline, to print to the console will cause some output to be displayed.
 - For OCaml bytecode compiler, you may generate bytecode by using ocamlc lec03.ml -o ex3.byte. This will produce a bytecode that can be invoked using ocamlrun ex3.byte or ./ex3.byte
 - For OCaml native compiler, you may generate machine code executable by using ocamlopt lec03.ml -o ex3. This will produce an executable that can be invoked using ./ex3
- 3. Have fun with OCaml!