

Programming I (Python) Assignment 1

1. I	In OCaml,	When an	expression	is evalu	ated, whi	ich of	following	things	may	happen
------	-----------	---------	------------	----------	-----------	--------	-----------	--------	-----	--------

- 1. It may evaluate to a value of the same type as the expression.
- 2. If typechecked successfully, it will never raise an exception.
- 3. It may not terminate.
- 4. It is guaranteedd to terminate.
- 2. of the following will typecheck:
 - 1. 1 + .2
 - 2. 1 + 2
 - 3. 1. +. 2.
 - $4. \ 1.0 + 2.0$
 - $5. \ 1.0 + .2.0$
 - 6. 1. +. 2
- 3. Which of the following operators have left associativity:
 - 1. +
 - 2. <>
 - 3. !=
 - 4. ~-.
 - 5. mod
 - 6. lsr
 - 7. lnot
- 4. The name of the OCaml debugger is:
 - 1. ogdb
 - 2. odebug
 - 3. ocamldebug

- 4. ocamlgdb
- 5. Which of the below are true about OCaml type system?
 - 1. Statically typed
 - 2. Dynamically typed
 - 3. Implicitly typed
 - 4. Explicitly typed
 - 5. Both implicitly and explicitly typed
- 6. Which are possible ways of executing an OCaml program:
 - 1. Write on the OCaml toplevel.
 - 2. Write in a file and run with ocaml command.
 - 3. Write in a file, compile with ocamle command and run the executable.
 - 4. Write in a file, compile with ocamlopt command and run the executable.
 - 5. Write in a file, compile with ocamlcom command and run the executable.
- 7. When we use one of the OCaml compilers to compile an OCaml program program.ml, the compiler name and object code file name are related as follows:
 - 1. ocamlc \mapsto program.mlo
 - 2. ocamlopt \mapsto program.mlo
 - 3. ocamlc \mapsto program.mlc
 - 4. ocamlc \mapsto program.cmo
 - 5. ocamlc \mapsto program.cmx
 - 6. ocamlopt \mapsto program.cmo
 - 7. ocamlopt \mapsto program.cmx
- 8. Which of the following are valid variable names in OCaml:
 - 1. abc
 - 2. ab_c
 - 3. Abc
 - 4. Ab_c
 - 5. ab-c
 - 6. ab1
- 9. What are the features of a first class object in a programming language?
 - 1. Can be called as a procedure
 - 2. Can be passed as a parameter to a function
 - 3. Can be used as a type
 - 4. Can be returned from a function as a value

- 5. Can be stored in a data-structure
- 6. Can be imported as a module
- 10. A working definition of a "safe" programming language is:
 - 1. A program written in the programming language can't ever fail.
 - 2. A valid program will never fault because of an invalid machine operation.
 - 3. There are no runtime type errors.
 - 4. Type conversions are disallowed.