

Programming with Patterns (31050 and 32050)

Laboratory exercises: Week 1

Question 1 After logging on in the Linux lab, check that you can access bondi, by typing `bondi -f`.

You should see

```
Welcome to bondi version ???
No warranty expressed or implied
Standard library: /usr/lib/bondi
See README for details
type '%quit;;' to exit
~~
```

Now quit the application (Control-D works just like `%quit;;`).

Question 2 create a directory called bondi

```
mkdir bondi
cd bondi
```

Now copy `manual_prelude.bon` from UTSONline to this directory. or write it yourself. Here is what it contains

```
(*
%open "manual_prelude.bon";;

*)

%cd "/usr/lib/bondi/prelude";;
%open "printing.bon";;          (* basic printing *)
%open "imperatives_core.bon";; (* for-loops and iterators *)
%open "structure_poly.bon";;    (* structure polymorphism *)
%open "datum2generic.bon" ;;    (* path polymorphism *)
%open "dynamic2static.bon";;    (* dynamic patterns *)
%open "queries.bon";;           (* pattern polymorphism *)
```

Question 3 Now execute `bondi -f` again and load `manual_prelude` by the command

```
%open "manual_prelude.bon";;
```

This should produce a substantial display, ending

```
(* Finished sourcing "./manual_prelude.bon" *)
```

Now you are ready to go.

Question 4 Type in the following commands

- `3;;`
- `3+4;;`
- `[1,2,3];;`
- `(1,2,3)`

Question 5 Open the standard prelude “`/usr/lib/bondi/prelude/standard_prelude.bon`” and familiarise yourself with its contents.

Question 6 [Optional]

Download and install `bondi` on your laptop, from `bondi.it.uts.edu.au`.