

## Tutorial #2 (for week 5) (Feb 6, 2004)

4th February 2004

The following questions will be considered during the tutorial sessions on Friday...

- Q1:** The claim is made that **Tcl** uses *associative* indexes into arrays. Give an example (in **Tcl**) of a useful use of the *associative* array, comparing it with similar code for a *normal* array.
- Q2:** Try running **tclsh** on one of the UNIX systems. **Tcl** does not have the commands **ls** or **ps** or **emacs**, but try typing them anyway.
- (a) Explain the results of this experiment.
  - (b) Explain also why this behaviour of **tclsh** may result in non-portable programs.
- Q3:** Differentiate between a self-interpreter, and a language like **Tcl** with the self-interpretation property.
- Q4:** Modify the **Tcl/Tk** “Hello World” program to print out the date and time on the console.
- (a) Demonstrate your new program
  - (b) In your program you are probably using `-command { ... }`. Explain what happens when you replace `{ ... }` with `“...”`.
- Q5:** Write Tcl code to:
- (a) write the `^` character to the console output
  - (b) write the `{` character to the console output
  - (c) write out program arguments (if you call a tcl program: **myprog a b c**, it will display **a b c**)
  - (d) safely open a text file and print its contents. If the file is not openable for some reason, print out a suitable error message.