

## Tutorial #5 (for week 9) (Mar 4, 2003)

1st March 2003

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

- Q1:** Assume that you are using a Tcl/Tk program that has certain widgets that you don't like - for example, you would prefer your *buttons* to be GREEN (who doesn't?). Outline how you could achieve this without modifying the original application.
- Q2:** Write a *minimal* Tk application using the canvas, that places some filled ovals on the canvas, and, as you move the mouse over the ovals, the current one is raised to the top. (so if you had three overlapping ovals, you could bring any one of them to the top by placing the mouse over it). The top one must remain on top if you move the mouse away.
- Q3:** Write a minimal Tcl/Tk program that runs away from the mouse. That is - if you place the mouse over the application, it attempts to move away so the mouse is not over it. Your program could move smoothly, rather than jump.
- Q4:** Research the MVC paradigm. Outline its most important features, and show the link(s) between it and the Java Swing software architecture.