1 Requirement

A specification of PiggyBank and CoffeeClub machines, as specified in the lecture slides, is required. You must carry out the actions described in the following section.

2 What you have to do

Please read and follow the instructions carefully. The submitted assignment will be auto-marked on the basis of all the following steps being completed.

1. Create a new development directory You can call it what you want, but for the purposes of this specification, it will be called CoffeeClub.
2. Run B-Toolkit in the directory CoffeeClub.
3. Introduce a machine called PiggyBank
4. Enter the text of the machine in your editor.
5. Commit and Analyze the machine
6. Generate the proof obligations
7. Run the AutoProver in the Provers environment.
8. Pretty print the proof obligations in the Provers environment.
9. Pretty print the proofs at level 0 in the Provers environment.
10. Mark up the PiggyBank machine in the Documents environment.
11. Mark up the proofs that were pretty printed in step 9
12. Introduce a machine called CoffeeClub.
13. **Enter** the text of the machine in your editor.

14. **Commit and Analyze** the machine

15. **Generate the proof obligations**

16. **Run the AutoProver** in the **Provers** environment. There should be 0 undischarged proof obligations.

17. **Mark up the CoffeeClub** machine in the **Documents** environment.

18. Exit from BToolkit . . .


20. **Submit assignment** run `~cs2111/bin/giveB ass1 CoffeeClub`. *Yes that is giveB, not give!*

### 3 Important

1. The development you submit should contain only the requested machines.

2. You must carry out *all* the requested actions within the BToolkit.