

## Lab 5 - Polymorphism - Never drink black coffee at lunch; it will keep you awake all afternoon. - Jilly Cooper

1. In your lab project, Team->Remote->Pull from Upstream
2. Open Windows (not Internet) Explorer and go to the project on your USB drive
3. Go into Documents\Lab05
4. Copy the file javadoc.zip to the Desktop
5. Double click on javadoc.zip on the Desktop and select Extract
6. This will create a folder called javadoc; open that folder, right-click on index.html, and select Open with->Chrome
7. This will open the javadoc for the package edu.blackburn.cs.cs212sp16.coffeeshop
8. Open WhiteStar UML and make a new file with a class diagram
9. Save this file in the lab project as Documents\Lab05\cafe-lastname-lastname.uml
10. Create the class diagram for edu.blackburn.cs.cs212sp16.coffeeshop (focus on methods and relationships)
11. Create a new package in your lab project called edu.blackburn.cs.cs212sp16.cafelastnamelastname (no punctuation or separators)
12. Add the .jar file from Documents\Lab05 to your project (ask for assistance)
13. Create a Runner class
14. Import edu.blackburn.cs.cs212sp16.coffeeshop.\*
15. In Runner, create a main() method and create a Customer instance, the correct Measurement subclass instance, and a Mixer subclass instance, compile/run/evaluate
16. In the same package, create a subclass of Drink called Coffee
17. In Runner, create a Coffee instance and add the Customer object and the Mixer object
18. Use one statement to get the Measurement attribute out of the Coffee instance
19. Using ==, not .equals(), compare the Measurement subclass instance of the Mixer subclass instance that you added to your Coffee instance to the Measurement attribute from Step18
20. What happened? Why?
21. For your lab project, Pull from Upstream/Add/Commit/Push to Upstream