Part A:

1]

1. By using [ByteArrayOutputStream](http://java.sun.com/j2se/1.4.2/docs/api/java/io/ByteArrayOutputStream.html) and System.setXXX (<https://stackoverflow.com/questions/1119385/junit-test-for-system-out-println>)
2. By creating Interfaces (Eg Ianimal, Ibird)

3]

b) Rooster is a child class of Chicken class

c) Chicken rooster = **new** Chicken(){

**public** **void** sing() {

System.***out***.println("Cock-a-doodle-doo");

}

};

d) By creating an Interface. By creating a parrot object and overriding the appropriate method inside the parrot object creation.

Part B:

3]

b) By using Composition. Fish **HAS A** Dolphin

BONUS]

1] Tamil – Cockarako

Chicken rooster = **new** Chicken(){

**public** **void** sing() {

System.***out***.println("Cockarako");

}

};

2] Converting the Project to Web Project. For Restful webservice, we can use the Jersey Implementation. We need to add the URIs for resources and the transfer format eg: JSON, XML