COSC 603

Software Maintenance & Testing

Spring 2016

**Project #2 – Refactoring and Design Smells**

Name: Marlene Encinas

**Task 10 – Refactoring: Creating a Local Variable from Repeated Code. *For this task, briefly describe your experience with this task and for which design smells creating a local variable from repeated code could help make the code more maintainable and why. In addition, comment on whether it is always OK to do this to a function call and whether it could affect the correctness of a program.***

Answer:

Following the steps described in the Task 10 was straight forward. I think extracting cell.getColorGroup() was a good decision because the code is more efficient by calling only once this method, storing its value into a local variable and reusing the local variable only instead of calling many time the same method. Also providing meaningful names to the variable makes more explicit the code purpose and the inspection of the expression return will be easier. This way it helps with the duplicated code design smell to avoid having same expression in two separate methods.