Software Design Pattern: Assignment 4

Name: Abdul Mohaimen Al Radi

Roll: 05

Name: Prothito Shovon Majumder

Roll: 07

Design Patterns:

- 1. Adapter: The ConfigManagerXML class is an adapter to the ConfigManagerDefault class.
- 2. Singleton: Both WindowManager and ComponentFactoryProducer classes are singleton classes, containing private constructors and static instances.
- 3. Abstract Factory: The ComponentFactory class follows the abstract factory pattern, since it is an interface implemented by individual factories of Java Abstract Window Toolkit components (buttons, textboxes or editboxes).

List of assumptions:

- 1. The user can provide the configurations of UI components from an XML file or a text file, both of which must be in the same directory as the App class.
- 2. The color change instruction in the assignment has been interpreted as the change of colors of the text on the UI components (buttons, textboxes or editboxes).
- 3. The user can specify the textual content of the components(labels for buttons, contents of textboxes and editboxes), their X and Y coordinates, their width and height, their background and foreground colors from the config source file.
- 4. The user can run the application by typing the following commands in the source directory:

javac *.java java App5_7