1) Write a Java frame namely *Hw3LayoutSettings.java* that enables the user to set the properties of a *FlowLayout* manager dynamically, as shown in Figure 1. The *FlowLayout* manager is used to place 15 components in a panel. You can set the alignment, *hgap*, and *vgap* properties of the *FlowLayout* dynamically. When a user enters a new *hgap* or *vgap* value and presses *Enter*, the alignments of these components will be updated automatically. In Figure 2, there are some sample screenshots to explain the behaviors of the program when the actions performed.
2) Write a Java frame namely Hw3TabbedPane.java that does arithmetic on integers and rationales. The program uses two panels, one for integer arithmetic and the other for rational arithmetic. When the user clicks “Integer Operations” tab, the integer panel is activated. When the user clicks the “Rational Operations” tab, the rational panel is activated. In Figure 3, there are some sample screenshots to explain the behaviors of the program when the actions performed.
Figure 3 Sample Screenshots