Earlier, we showed how to register an anonymous function to listen to a click on a JButton. For a button declared like this:

**private** JButton eastButton= **new** JButton("east");

to register an anonymous function that will call buttonClick to process a click on the east button, use

1. eastButton.addActionListener(e -> buttonClick(e));

However, if the same method buttonClick is to be called for several buttons, it is better to create only *one* anonymous function and use it several times, as show below. Parameter type ActionEvent is unnecessary, but we put it there so you know what the type is.

1. ActionListener al= (ActionEvent e) -> buttonClick(e);
2. westButton.addActionListener(al);
3. eastButton.addActionListener(al);

Now, for any other even on some other component, we need to give you the same kind of information: The type of the function (ActionListener for a JButton) and the type of parameter e (above, ActionEvent). We can do that by showing you line (1), which tells you the type of the anonymous function and what its parameter is. With that, you can decide to register a listener using something like lines (2..3) or using something like line (1).

JTextField. The following listens to enter/return hits.

ActionListener jtfl= (ActionEvent e) -> makeUpperCaseField(e);