

## **Event Handling**

Event handling is another control flow construct.

- Branches (a conditional or switch selects control flow)
- Loops (a loop repeats control flow)
- Methods (a method call nests control flow)
- Events (the occurrence of event changes control flow)
  - Event handling in UIs
  - Exception handling (later)

X02 JavaFX 2

## Events and Passing Code in Java

An event handler executes some code when an event occurs.

**Q**: How do we pass code as an argument in Java?

**A**: We pass *objects*, which implement *interfaces* through *methods*.

JavaFX event handler interfaces are functional, so we can use lambda expressions.

## **Events in JavaFX**

- Events are instances of javafx.event.Event
  - Have Event type, Source, Target
- Event handlers implement javafx.event.EventHandler
  - Functional interface, with method void handle(Event).
- An event handler can be created with a lambda expression, for example:

```
scene.setOnKeyTyped(event -> { ...code... })
(or a nested class, an anonymous inner class, ...)
```

