

## Designing Interactive Systems II - Assignment 01

Group 12

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### 3. Expert Question: Testing Your Understanding

1. HelloWorldConsole retrieves user input as text, which has to be validated before processing it. The input is not limited and information content is high. HelloWorldGraphical retrieves user input using buttons. The inputs are limited to buttons and the information content is less.
2.
  - a. At minimum, one event listener can be used to implement the functionality. This can be achieved by inheriting the Action Listener class and using it to process all inputs of that class.
  - b. It can be implemented using four event listeners. This can be done by assigning each button with its own Action listener.
  - c. Assigning all the inputs to a single master action listener creates a messy code, but this works for simple application with all inputs performing similar task. For a complicated task, assigning one action listener for each input will create clean and simple implementation.