

# Software Technology 1: Part A – Basic Swing Form

Assignment Documentation

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## Basic Form

The 'Part A' window has a yellow title bar with a Java logo, a minus button, a maximize button, and a close button. The main area contains two labels, 'First Number' and 'Second Number', each followed by an empty text input field. To the right of the 'First Number' field is an 'Add' button. To the right of the 'Second Number' field are 'Subtract' and 'Concatenate' buttons.

## Add

Number + Number

The 'Part A' window shows the 'First Number' field containing '10' and the 'Second Number' field containing '10'. The 'Add' button is highlighted with a dashed border. Below the 'Second Number' field, the value '20.0' is displayed. The 'Subtract' and 'Concatenate' buttons are also visible.

## String + Number

The 'Part A' window shows '10' in the 'First Number' field and 'Hello' in the 'Second Number' field. The 'Add' button is highlighted. An 'Error' dialog box is open, displaying a red 'X' icon, the text 'Invalid number entered.', and an 'OK' button.

## Number + String

The 'Part A' window shows 'Hello' in the 'First Number' field and '10' in the 'Second Number' field. The 'Add' button is highlighted. An 'Error' dialog box is open, displaying a red 'X' icon, the text 'Invalid number entered.', and an 'OK' button.

## String + String

The 'Part A' window shows 'Hello' in the 'First Number' field and 'Goodbye' in the 'Second Number' field. The 'Add' button is highlighted. An 'Error' dialog box is open, displaying a red 'X' icon, the text 'Invalid number entered.', and an 'OK' button.


## Subtract

### Number + Number

Part A		
First Number	10	Add
Second Number	10	Subtract
	0.0	Concatenate


### String + Number

Part A		
First Number	Hello	Add
Second Number	10	Subtract
		Concatenate

Error
 Invalid number entered.
<input type="button" value="OK"/>


### Number + String

Part A		
First Number	10	Add
Second Number	Goodbye	Subtract
		Concatenate

Error
 Invalid number entered.
<input type="button" value="OK"/>

### String + String

Part A		
First Number	Hello	Add
Second Number	Goodbye	Subtract
		Concatenate

Error
 Invalid number entered.
<input type="button" value="OK"/>

## Concatenate

### Number + Number

Part A		
First Number	10	Add
Second Number	10	Subtract
	1010	Concatenate

### String + Number

Part A		
First Number	Hello	Add
Second Number	10	Subtract
	Hello10	Concatenate

Number + String

Part A

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First Number	10	Add
Second Number	Goodbye	Subtract
10Goodbye		Concatenate

String + String

Part A

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First Number	Hello	Add
Second Number	Goodbye	Subtract
HelloGoodbye		Concatenate