

# AP Comp Sci A/B Mr. Hanley

## Assignment 2<sub>2</sub>/2<sub>8</sub>/2<sub>16</sub>

### Operator Practice

Binary

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Ones Comp

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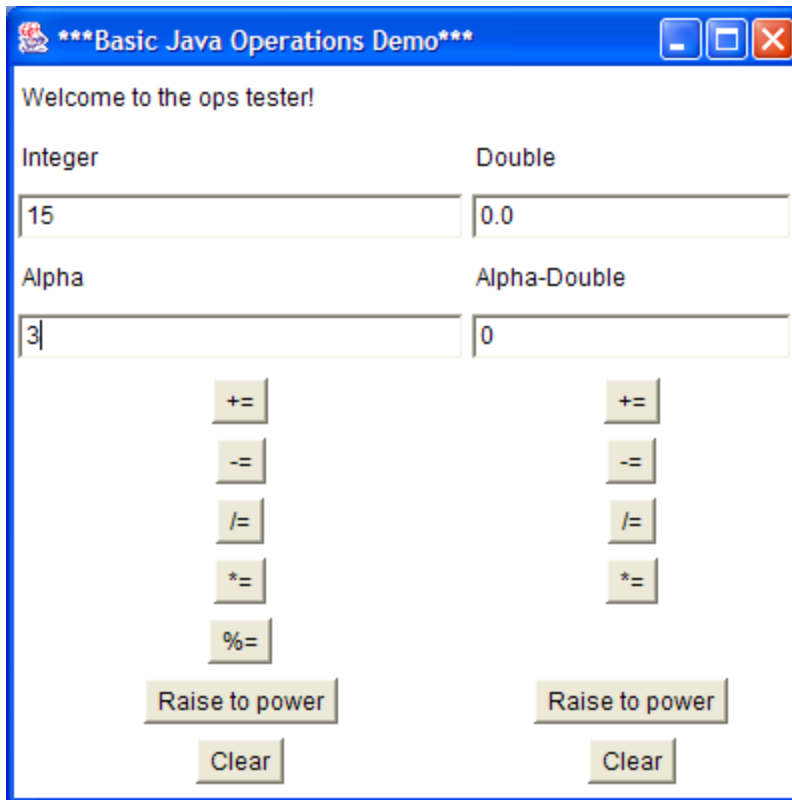
Twos Comp

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Develop a visual app that demonstrates the use of 6 different math operators. Allow the user to enter an integer into one field and a double into another field. Then provide an integer field underneath the original field with the label deltaInt and a double field underneath the original double field with a label called deltaDouble. The user should be able to enter values into the alpha fields and then click on a choice of buttons. Integer buttons should include Clear, +, -, \*, %, and power. Upon hitting one of those buttons, the original number should be updated.

String\*Arrays\*ArrayList\*Sets\*Maps\*Artificial Intelligence\*Heaps\*Files\*Video Games\*Short circuit evaluation



For example, if the user hits the += button underneath the integers in the above example, then the Integer field should be updated with  $15+3 = 18$ . Clear should clear the appropriate fields (both the int fields or both double fields)

NOTE: Check for divide by zero bug if they are using  $\% =$ ,  $/ =$  int or  $/ =$  double and give them a warning message if they are about to do this.

Project Name	Assign 2 – Using Ops
Class 1 Name	OpsApp
Class 2 Name	OpsFrame

Rubric	
User interface complete and working	25
Each button works 3 points each	40
Divide by zero handled for both	10
<b>TOTAL</b>	<b>75</b>