

CalcModified IPO chart and Algorithm

IPO Chart

Input	Process	Output
operator, input1, input2	Prompt user for operator, input1, input2	Display result
	do...While (operator != 'x' operator != 'X')	
	Switch(operator)	
	Case A or a: CALCULATE result = input1 + input2 DISPLAY result	
	Case B or b: CALCULATE result = input1 - input2 DISPLAY result	
	Case C or c: CALCULATE result = input1 * input2 DISPLAY result	
	Case D or d: CALCULATE result = input1 / input2 DISPLAY result	
	Case X or x: DISPLAY Good Bye! System.exit(o);	
	END do...While (operator != 'x' operator != 'X')	

Algorithm

import java.util.*; //used for scanner

CLASS Main

Main Method

DECLARE new default Calc object from Calc Class (only for part 2)

DECLARE instantiating Scanner Object

DECLARE INITIALIZE operator, input1, input2

OUTPUT intro

do...While (operator != 'x' || operator != 'X')

 OUTPUT menu

 PROMPT user operator, input1, input2

 GET operator, input1, input2

 SWITCH(operator)

 Case A or a:

 CALCULATE result = input1 + input2

 DISPLAY result

 BREAK

 Case B or b:

 CALCULATE result = input1 - input2

 DISPLAY result

 BREAK

 Case C or c:

 CALCULATE result = input1 * input2

 DISPLAY result

 BREAK

 Case D or d:

 CALCULATE result = input1 / input2

 DISPLAY result

BREAK

Case X or x:

DISPLAY Good Bye!

System.exit(o);

Default:

DISPLAY invalid selection

System.exit(o);

END switch

END do...While (operator != 'x' || operator != 'X')

END of Main Method

END of CLASS Main