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#|*****
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*****|#
#|
this is the simple calculator app
it has 4 functions in it, which are "+", "-", "*", "/"
I have used lambda functionality in it.
Name of my defined function is "calc".
I am using lambda functionality in it
(lambda is a function which has no name but
just the functionality).
Inside lambda there is "func", "x", "y".
"func" is the operator and x and y are 2 integer values.
My function takes the values in the order we normally put
ie; 1 + 1 and gives the result
|#
; PROGRAM CODE:
(define calc (lambda (x func y) ; lambda declared
                ; so the entry by the user would be x + y
                ; means operand operator and operand
                ; but the implementation in following
                ; line is by the scheme language syntax
                ; ie operator operand operand.
                (func x y))) ;lambda functioning

; NOW WE COME TO THE TESTS:

"Addition: 5 + 6"
(calc 5 + 6) ; result is supposed to be 11
"Deduction: 8 - 5"
(calc 8 - 5) ; result should be 3
"Deduction: 5 - 9"
(calc 5 - 9) ; result should be -4
"Multiplication: 3 * 5"
(calc 3 * 5) ; result should be 15

#| in division I notice that scheme is different in a way
that it gives you the whole answer, means takes better
division process|#
; ie; result of 9/2 is not the remainder but 4.5
"Division: 9 / 2"
(calc 9 / 2) ; result should be 4.5
"Division: 15 / 3"
(calc 15 / 3) ; result should be 5

; let's see if the results match

#| OUTPUT is:
11
3
-4
15
4.5
5|#
; RESULT--> Success

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