Challenge Lab 8

Below you will find a simple program which computes and displays the average of four user entered numbers. To complete this challenge lab you must do the following:

1) The compute statement below must be placed in a subroutine (form) **which makes use of an interface.**
    a. You will need to decide which type of interface to use.
2) You may NOT use <u>any</u> actual parameters (highlighted below) in the subroutine!!! Your subroutine must use formal parameters only!!!
3) You may not add, move, or alter any WRITE statements (in other words, the WRITE statements must remain outside the subroutine)!!


```
*-------------- parameters
PARAMETERS par_num1(2) TYPE p.
PARAMETERS par_num2(2) TYPE p.
PARAMETERS par_num3(2) TYPE p.
PARAMETERS par_num4(2) TYPE p.

*-------------- variables
DATA calc_result(6) TYPE p DECIMALS 2.

*-------------- constants
CONSTANTS con_num1(14) TYPE c VALUE 'Number One  : '.
CONSTANTS con_num2(14) TYPE c VALUE 'Number Two  : '.
CONSTANTS con_num3(14) TYPE c VALUE 'Number Three: '.
CONSTANTS con_num4(14) TYPE c VALUE 'Number Four : '.

CONSTANTS con_total(9) TYPE c VALUE 'Average: '.

* ------------- main program
* perform the calculation

COMPUTE calc_result = ( par_num1 + par_num2 + par_num3 + par_num4 ) / 4.

* write the result to the report
WRITE: con_num1, par_num1.
WRITE: /, con_num2, par_num2.
WRITE: /, con_num3, par_num3.
WRITE: /, con_num4, par_num4.
WRITE: /, con_total, calc_result.
```