**Calculation Program with SUBROUTINE**

*\*Declaring a program global type result*  
TYPES gty\_result TYPE p LENGTH 16 DECIMALS 2.  
  
  
*\*declaring the parameters needed*  
*\*type i = int/ type c= character with specified length*  
PARAMETERS:  
 pa\_int1 TYPE i,  
 pa\_op TYPE c LENGTH 1,  
 pa\_int2 TYPE i.  
  
  
DATA gv\_result TYPE gty\_result.  
  
  
IF ( pa\_op = '+' OR pa\_op = '-' OR  
 pa\_op = '\*' OR pa\_op = '/' AND  
 pa\_int2 <> 0 OR pa\_op = '%' ).  
  
  
 CASE pa\_op.  
 WHEN '+'.  
 gv\_result = pa\_int1 + pa\_int2.  
 WHEN '-'.  
 gv\_result = pa\_int1 - pa\_int2.  
 WHEN '\*'.  
 gv\_result = pa\_int1 \* pa\_int2.  
 WHEN '/'.  
 gv\_result = pa\_int1 / pa\_int2.  
 WHEN '%'.  
 PERFORM calc\_percentage USING pa\_int1 pa\_int2  
 CHANGING gv\_result.  
  
 ENDCASE.  
  
  
 WRITE: 'Result:'(res), gv\_result.  
ELSEIF pa\_op = '/' AND pa\_int2 = 0.  
 WRITE: 'No division by zero!'(dbz).  
ELSE.  
 WRITE: 'Invalid operator!'(iop).  
ENDIF.

*\* Here I am opening the form(Subroutine).*  
FORM calc\_percentage USING pv\_act TYPE i  
 pv\_max TYPE i  
 CHANGING cv\_result TYPE gty\_result.  
*\* Simple Error Handling*  
IF pv\_max = 0.  
 cv\_result = 0.  
WRITE 'Error in percentage calculation'.  
ELSE.  
*\* Calculate result*  
 cv\_result = pv\_act / pv\_max \* 100.  
  
ENDIF.  
ENDFORM. *" calc\_percentage*