REPORT ZNYN\_OOP\_DEMO\_26.  
  
CLASS try\_demo DEFINITION.  
  PUBLIC SECTION.  
    CLASS-DATA: result TYPE p LENGTH 8 DECIMALS 2,  
                oref   TYPE REF TO cx\_root,  
                text   TYPE string.  
    CLASS-METHODS main.  
  PRIVATE SECTION.  
    CLASS-DATA number TYPE i.  
    CLASS-DATA out TYPE REF TO if\_demo\_output.  
    CLASS-METHODS calculation  
      IMPORTING  p\_number LIKE number  
      CHANGING p\_result LIKE result  
               p\_text   LIKE text  
      RAISING  cx\_sy\_arithmetic\_error.  
ENDCLASS.  
  
CLASS try\_demo IMPLEMENTATION.  
  METHOD main.  
    cl\_demo\_input=>request( CHANGING field = number ).  
    out = cl\_demo\_output=>new( ).  
    TRY.  
        IF abs( number ) > 100.  
          RAISE EXCEPTION TYPE cx\_demo\_abs\_too\_large.  
        ENDIF.  
        calculation( EXPORTING p\_number = number  
                     CHANGING  p\_result = result  
                               p\_text   = text ).  
      CATCH cx\_sy\_arithmetic\_error INTO oref.  
        text = oref->get\_text( ).  
      CATCH cx\_root INTO oref.  
        text = oref->get\_text( ).  
    ENDTRY.  
    IF NOT text IS INITIAL.  
      out->write( text ).  
    ENDIF.  
    out->display( |Final result: { result ALIGN = LEFT }| ).  
  ENDMETHOD.  
  METHOD calculation.  
    DATA l\_oref TYPE REF TO cx\_root.  
    TRY.  
        p\_result =  1 / p\_number.  
        out->write(  
          |Result of division: { p\_result ALIGN = LEFT }| ).  
        p\_result = sqrt( p\_number ).  
        out->write(  
          |Result of square root: { p\_result ALIGN = LEFT }| ).  
      CATCH cx\_sy\_zerodivide INTO l\_oref.  
        p\_text = l\_oref->get\_text( ).  
      CLEANUP.  
        CLEAR p\_result.  
    ENDTRY.  
  ENDMETHOD.  
ENDCLASS.  
  
START-OF-SELECTION.  
  try\_demo=>main( ).  