REPORT ZNYN\_OOP\_DEMO\_25.  
  
CLASS NUMBERS DEFINITION.  
  PUBLIC SECTION.  
    METHODS SETNUMBERS.  
    METHODS CALC RAISING CX\_SY\_ZERODIVIDE.  
    METHODS DISPLAYNUMBERS.  
  PRIVATE SECTION.  
    DATA: NUM1 TYPE I,  
          NUM2 TYPE I,  
          RES  TYPE I.  
ENDCLASS.  
  
CLASS NUMBERS IMPLEMENTATION.  
  METHOD SETNUMBERS.  
    NUM1 = 10.  
    NUM2 = 0.  
  ENDMETHOD.  
  METHOD CALC.  
    RES = NUM1 / NUM2.  
  ENDMETHOD.  
  
  METHOD DISPLAYNUMBERS.  
    WRITE:/ 'Res is:' , RES.  
  ENDMETHOD.  
ENDCLASS.  
  
START-OF-SELECTION.  
  DATA ORF\_1 TYPE REF TO CX\_ROOT.  
  DATA POSITION TYPE I.  
  DATA PGMNAME TYPE SY-REPID.  
  DATA NUM TYPE REF TO NUMBERS.  
  CREATE OBJECT NUM.  
  NUM->SETNUMBERS( ).  
  TRY.  
      NUM->CALC( ).  
    CATCH CX\_SY\_ZERODIVIDE INTO ORF\_1.  
      WRITE / ORF\_1->KERNEL\_ERRID.  
      WRITE / ORF\_1->GET\_TEXT( ).  
      WRITE / ORF\_1->GET\_LONGTEXT( ).  
  
      ORF\_1->GET\_SOURCE\_POSITION(  
                  IMPORTING  SOURCE\_LINE  = POSITION  
                             PROGRAM\_NAME = PGMNAME ).  
      WRITE: / 'Position:', POSITION.  
      WRITE: / 'Program Name:', PGMNAME.  
  ENDTRY.  
  NUM->DISPLAYNUMBERS( ). 