REPORT ZNYN\_OOP\_DEMO\_45.  
  
CLASS lcl\_airplane DEFINITION.  
  
  PUBLIC SECTION.  
    CONSTANTS: pos\_1 TYPE i VALUE 30.  
    DATA: pub\_attr  TYPE i.  
  
    METHODS: set\_attributes IMPORTING  
                   im\_name      TYPE string  
                   im\_planetype TYPE saplane-planetype,  
             display\_attributes.  
  
    CLASS-METHODS: display\_no\_of\_airplanes.  
  
  PRIVATE SECTION.  
    DATA: name      TYPE string,  
          planetype TYPE saplane-planetype.  
  
    CLASS-DATA: no\_of\_airplanes TYPE i.  
ENDCLASS.                    "lcl\_airplane DEFINITION  
  
\*------------------------------------------------------------------\*  
\*       CLASS lcl\_airplane IMPLEMENTATION                          \*  
\*------------------------------------------------------------------\*  
CLASS lcl\_airplane IMPLEMENTATION.  
  
METHOD set\_attributes.  
    name          = im\_name.  
    planetype     = im\_planetype.  
    no\_of\_airplanes = no\_of\_airplanes + 1.  
ENDMETHOD.                    "set\_attributes  
  
  METHOD display\_attributes.  
    WRITE:  
           / 'Name of airplane:'(001), AT pos\_1 name,  
           / 'Type of airplane'(002), AT pos\_1 planetype.  
  ENDMETHOD.                    "display\_attributes  
  
  METHOD display\_no\_of\_airplanes.  
    WRITE: /, / 'Total number of airplanes'(ca1),  
           AT pos\_1 no\_of\_airplanes LEFT-JUSTIFIED, /.  
  ENDMETHOD.                    "display\_n\_o\_airplanes  
  
ENDCLASS.                    "lcl\_airplane IMPLEMENTATION  
DATA: r\_plane TYPE REF TO  lcl\_airplane,  
      r\_plane1 TYPE REF TO  lcl\_airplane,  
      r\_plane2 TYPE REF TO  lcl\_airplane,  
      r\_plane3 TYPE REF TO  lcl\_airplane,  
      plane\_list TYPE TABLE OF REF to lcl\_airplane.  
  
START-OF-SELECTION.  
CREATE OBJECT r\_plane.  
  
CREATE OBJECT r\_plane1.  
r\_plane1->pub\_attr = 10.  
r\_plane1->set\_attributes( im\_name = 'LH Berlin'  
                         im\_planetype = 'A321' ).  
APPEND r\_plane1 to plane\_list.  
  
CREATE OBJECT r\_plane2.  
r\_plane2->pub\_attr = 20.  
CALL METHOD r\_plane2->set\_attributes( im\_name = 'AA New York'  
                                  im\_planetype = '747-400' ).  
APPEND r\_plane2 to plane\_list.  
  
CREATE OBJECT r\_plane3.  
r\_plane3->pub\_attr = 30.  
CALL METHOD r\_plane3->set\_attributes( im\_name = 'US Herclues'  
                           im\_planetype = '747-500' ).  
APPEND r\_plane3 to plane\_list.  
  
lcl\_airplane=>DISPLAY\_NO\_OF\_AIRPLANES( ).  
  
LOOP AT plane\_list INTO r\_plane. "  WHERE TABLE\_LINE->pub\_attr = 20.  
    r\_plane->display\_attributes( ).  
ENDLOOP.  
skip.  
LOOP AT plane\_list INTO r\_plane  WHERE TABLE\_LINE->pub\_attr = 20.  
    r\_plane->display\_attributes( ).  
ENDLOOP.  
  
skip.  
  
READ TABLE plane\_list INTO r\_plane  
WITH KEY table\_line->pub\_attr = 10.  
 r\_plane->display\_attributes( ). 