REPORT ZAT\_OOAP\_IH01.  
  
\*Inheritance Example- attributes are hardcoded/resetted in the child class.  
CLASS employee DEFINITION.  
  PUBLIC SECTION.  
    METHODS:  
      set\_attributes  
        IMPORTING im\_employee\_no   TYPE i  
                  im\_employee\_name TYPE string,  
      display\_attributes.  
  
  PRIVATE SECTION.  
    DATA: no   TYPE i,  
          name TYPE string.  
ENDCLASS.  
  
\*--- Employee - Implementation  
CLASS employee IMPLEMENTATION.  
  METHOD  set\_attributes.  
    no = im\_employee\_no.  
    name = im\_employee\_name.  
  ENDMETHOD.  
  
  METHOD display\_attributes.  
    WRITE:/ 'Employee', no, name.  
  ENDMETHOD.  
ENDCLASS.  
  
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
CLASS bluecollar\_employee DEFINITION  
           INHERITING FROM employee.  
  PUBLIC SECTION.  
    METHODS:  
      set\_attributes REDEFINITION,  
      display\_attributes REDEFINITION.  
ENDCLASS.  
  
\*---- CLASS BlueCollar\_Employee IMPLEMENTATION  
CLASS bluecollar\_employee IMPLEMENTATION.  
  METHOD  set\_attributes.  
    super->set\_attributes( im\_employee\_no = 100  
                     im\_employee\_name = 'Ram' ) . "values are reset here.  
  
  ENDMETHOD.  
  
  METHOD display\_attributes.  
    super->display\_attributes( ).  
  ENDMETHOD.  
ENDCLASS.  
  
DATA:  
\* Object references  
  o\_bluecollar\_employee1 TYPE REF TO bluecollar\_employee,  
  o\_bluecollar\_employee2 TYPE REF TO bluecollar\_employee.  
  
START-OF-SELECTION.  
\* Create bluecollar employee obeject  
  CREATE OBJECT o\_bluecollar\_employee1.  
  CREATE OBJECT o\_bluecollar\_employee2.  
  CALL METHOD o\_bluecollar\_employee1->set\_attributes  
    EXPORTING  
      im\_employee\_no   = 1  
      im\_employee\_name = 'Gylle Karen'.  
  CALL METHOD o\_bluecollar\_employee1->display\_attributes.  
  
  CALL METHOD o\_bluecollar\_employee2->set\_attributes  
    EXPORTING  
      im\_employee\_no   = 2  
      im\_employee\_name = 'John Miller'.  
  CALL METHOD o\_bluecollar\_employee2->display\_attributes.

