REPORT ZNYN\_OOP\_DEMO\_36.  
  
CLASS employee DEFINITION.  
PUBLIC SECTION.  
METHODS:  
      constructor  
        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  constructor.  
    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:  
         constructor   IMPORTING  
                  im\_employee\_no TYPE i  
                  im\_employee\_name TYPE string  
                  im\_hours TYPE i  
                  im\_hourly\_payment TYPE i,  
         display\_attributes REDEFINITION,  
         display\_attributes\_blue.  
  
PRIVATE SECTION.  
         data : hours          TYPE i,  
               hourly\_payment TYPE i,  
               wage TYPE i.  
 ENDCLASS.  
  
\*---- CLASS BlueCollar\_Employee IMPLEMENTATION  
  
  
CLASS bluecollar\_employee IMPLEMENTATION.  
METHOD  constructor .  
 super->constructor( im\_employee\_no = im\_employee\_no  
 im\_employee\_name = im\_employee\_name ).  
    hours = im\_hours.  
    hourly\_payment = im\_hourly\_payment.  
    wage = hours \* hourly\_payment.  
ENDMETHOD.  
  
METHOD display\_attributes.  
    super->display\_attributes( ).  
ENDMETHOD.  
  
METHOD display\_attributes\_blue.  
      WRITE: hours ,hourly\_payment , wage.  
ENDMETHOD.  
  
  
  
ENDCLASS.  
  
CLASS whitecollar\_employee DEFINITION  
           INHERITING FROM employee.  
PUBLIC SECTION.  
  METHODS:  
         constructor   IMPORTING  
                  im\_employee\_no TYPE i  
                  im\_employee\_name TYPE string  
                  im\_monthly\_salary      TYPE i  
                  im\_monthly\_deductions TYPE i,  
                  display\_attributes REDEFINITION,  
                  display\_attributes\_white.  
PRIVATE SECTION.  
         data :  monthly\_salary        TYPE i,  
                 monthly\_deductions    TYPE i,  
                 wage TYPE i.  
  
 ENDCLASS.  
  
\*---- CLASS WhiteCollar\_Employee IMPLEMENTATION  
  
  
CLASS whitecollar\_employee IMPLEMENTATION.  
METHOD  constructor .  
 super->constructor( im\_employee\_no = im\_employee\_no  
 im\_employee\_name = im\_employee\_name ).  
    monthly\_salary  = im\_monthly\_salary.  
    monthly\_deductions = im\_monthly\_deductions.  
    wage = monthly\_salary - monthly\_deductions.  
ENDMETHOD.  
  
METHOD display\_attributes.  
    super->display\_attributes( ).  
ENDMETHOD.  
  
METHOD display\_attributes\_white.  
        WRITE: monthly\_salary ,monthly\_deductions , wage.  
ENDMETHOD.  
  
  
ENDCLASS.  
  
DATA:  
\* Object references  
 employee1  TYPE REF TO employee,  
  o\_bluecollar\_employee1  TYPE REF TO bluecollar\_employee,  
  o\_whitecollar\_employee1  TYPE REF TO whitecollar\_employee.  
  
START-OF-SELECTION.  
 CREATE OBJECT employee1  
      EXPORTING im\_employee\_no  = 1  
                im\_employee\_name  = 'Gylle Karen'.  
 CALL METHOD employee1->display\_attributes.  
  
\* Create bluecollar employee object  
  CREATE OBJECT o\_bluecollar\_employee1  
      EXPORTING im\_employee\_no  = 2  
                im\_employee\_name  = 'Tom'  
                im\_hours = 5  
                im\_hourly\_payment = 500.  
 CALL METHOD o\_bluecollar\_employee1->display\_attributes.  
 CALL METHOD o\_bluecollar\_employee1->display\_attributes\_blue.  
  
\* Create whitecollar employee obeject  
 CREATE OBJECT o\_whitecollar\_employee1  
      EXPORTING im\_employee\_no = 3  
                im\_employee\_name = 'John Dickens'  
                im\_monthly\_salary = 10000  
                im\_monthly\_deductions = 2500.  
 CALL METHOD o\_whitecollar\_employee1->display\_attributes.  
 CALL METHOD o\_whitecollar\_employee1->display\_attributes\_white. 