REPORT ZNYN\_OOP\_DEMO\_35.  
  
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.  
  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( ).  
    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.  
  PRIVATE SECTION.  
    DATA : MONTHLY\_SALARY     TYPE I,  
           MONTHLY\_DEDUCTIONS TYPE I,  
           SALARY             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.  
    SALARY = MONTHLY\_SALARY - MONTHLY\_DEDUCTIONS.  
  ENDMETHOD.  
  
  METHOD DISPLAY\_ATTRIBUTES.  
    SUPER->DISPLAY\_ATTRIBUTES( ).  
    WRITE: MONTHLY\_SALARY ,MONTHLY\_DEDUCTIONS , SALARY.  
  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.  
  
\* 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. 