REPORT ZAT\_OOAP\_IH05.  
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.

