Example: Local Interfaces

REPORT ZCLASS8\_INTERFACE.

interface rectangle.

constants : length type i value 10,

breadth type i value 5.

methods : area,

perimeter.

endinterface.

interface square.

constants side type i value 10.

methods : area,

perimeter.

endinterface.

class lcl\_impl DEFINITIOn. "implementation class

PUBLIC SECTION.

interfaces : rectangle,

square.

PROTECTED SECTION.

data res type i.

endclass.

class lcl\_impl IMPLEMENTATION.

method rectangle~area.

res = rectangle~length \* rectangle~breadth.

write :/ 'Area of rectangle is ',res.

endmethod.

method rectangle~perimeter.

res = 2 \* ( rectangle~length \* rectangle~breadth ).

write :/ 'Perimeter of rectangle is ',res.

endmethod.

method square~area.

res = square~side \* square~side.

write :/ 'Area of square is ',res.

endmethod.

method square~perimeter.

res = 4 \* square~side.

write :/ 'Perimeter of squareis ',res.

endmethod.

endclass.

START-OF-SELECTION.

data r type ref to rectangle.

\*create object r. "syntax error

write :/ 'Implementation class object ob...'.

data ob type ref to lcl\_impl.

create object ob.

call method : ob->rectangle~area,

ob->rectangle~perimeter.

uline.

write :/ 'Implementation class object ob --> assigned to interface rectangle reference r.'.

r = ob. "narrow casting

call method : r->area,

r->perimeter.

uline.

data s type ref to square.

\*create object s. "syntax error

write :/ 'Implementation class object ob...'.

call method : ob->square~area,

ob->square~perimeter.

uline.

write :/ 'Implementation class object ob --> assigned to interface square reference s.'.

s = ob. "narrow casting

call method : s->area,

s->perimeter.