Program Edit Goto Utilities Environment System 🔻 « 🔚 | 🥷 🚷 🜓 🛗 🛗 🛗 🛍 🖺 🖘 | 🥡 🖳 ABAP Editor: Change Report ZOOPS ABAP (a c) 🥱 😘 👘 🔞 🚰 🥕 🚝 💺 🔓 🖺 🗓 📗 🗓 Pattern Pretty Printer | Text Elements ZOOPS ABAP Active Report 4 5 REPORT ZOOPS ABAP. □ "#Inheritance "#Creating sub class from Main Class. 10 "#Instance method - Create Object 11 "#Static method - No Need to Create Object 12 13 14 DATA: lv erdat TYPE erdat, 15 ly erzet TYPE erzet, 16 lv ernam TYPE ernam, 17 lv vbtypl TYPE vbtypl. 18 19 20 21 PARAMETERS:p vbeln TYPE vbeln va. 22 PARAMETERS: r1 TYPE c RADIOBUTTON GROUP rad, 23 r2 TYPE c RADIOBUTTON GROUP rad. 24 CLASS class1 DEFINITION. 25 PUBLIC SECTION. 26 METHODS display IMPORTING pubeln TYPE vbeln va 27 EXPORTING perdat TYPE erdat 28 perzet TYPE erzet 29 pernam TYPE ernam 30 pvbtyp TYPE vbtypl. 31 - ENDCLASS. 32 CLASS class1 IMPLEMENTATION. 34 METHOD display. 35 SELECT SINGLE erdat erzet ernam vbtyp 36 37 INTO (perdat, perzet, pernam, pvbtyp) WHERE vbeln = p vbeln. 38 39 ENDMETHOD. 40 ENDCLASS. 41 ABAP Object(s) activated SAP

```
□ CLASS class2 DEFINITION INHERITING FROM class1.
    ENDCLASS.
    START-OF-SELECTION.
      DATA: obj1 TYPE REF TO class2.
      CREATE OBJECT obj1.
51
      CALL METHOD obj1->display
53
        EXPORTING
         pvbeln = p vbeln
       IMPORTING
         perdat = lv erdat
        perzet = lv erzet
         pernam = lv ernam
          pvbtyp = lv vbtypl.
60
      WRITE: / lv erdat,
61
               lv erzet,
               lv ernam,
63
               lv vbtypl.
64
```

```
Program Edit Goto Utilities Environment System Help
                    ABAP Editor: Change Report ZOOPS ABAP
 (a b) 💖 👫 🔞 🚰 🌽 📮 📫 👼 🖺 🗓 🗓 🕞 🚳 Pattern Pretty Printer Text Elements
                     ZOOPS ABAP
Report
                                                   Active
     66
     67
           "#Abstract Class
           "#Abstract Class should have atleast One abstract Method
     68
     69
           "#Abstract method have only definition No Implementation
     70
           "#you can implement abstract method by creating subclass
     71
           "#In subclass you have to Inherite and Redefine that method to implement
    72
     73
        FICLASS zabstract DEFINITION ABSTRACT.
    74
           PUBLIC SECTION.
     75
             METHODS display ABSTRACT IMPORTING pubeln TYPE vbeln va
     76
                                     EXPORTING perdat TYPE erdat
     77
                                               perzet TYPE erzet
     78
                                               pernam TYPE ernam
     79
                                               pybtyp TYPE vbtypl.
    80
        - ENDCLASS.
    81
     82
    83
        CLASS zsales DEFINITION INHERITING FROM zabstract.
     84
           PUBLIC SECTION.
     85
             METHODS display REDEFINITION.
     86
        - ENDCLASS.
    87
    88
        FICLASS zsales IMPLEMENTATION.
     90
           METHOD display.
     91
             SELECT SINGLE erdat erzet ernam vbtyp
     92
               FROM vbak
     93
               INTO ( perdat, perzet, pernam, pvbtyp )
     94
               WHERE vbeln = p vbeln.
```

95

96

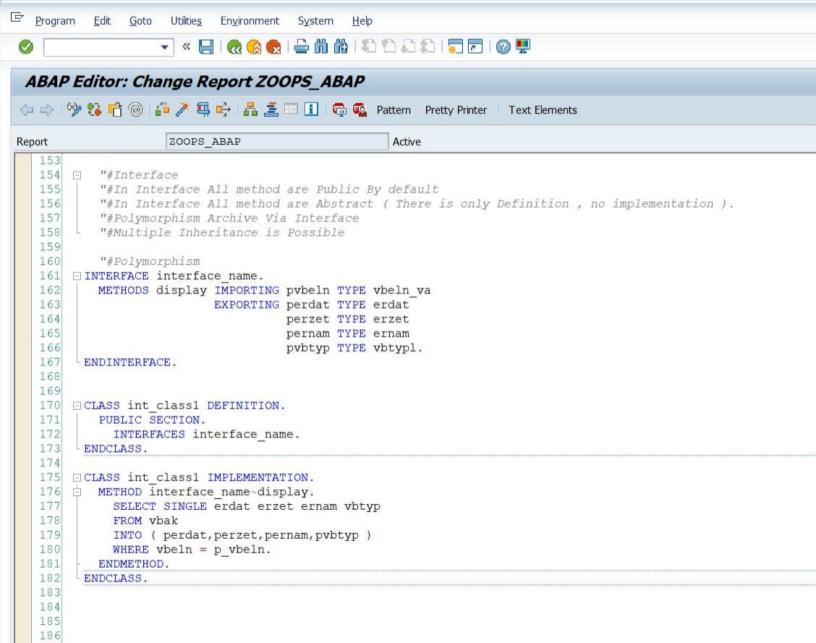
97

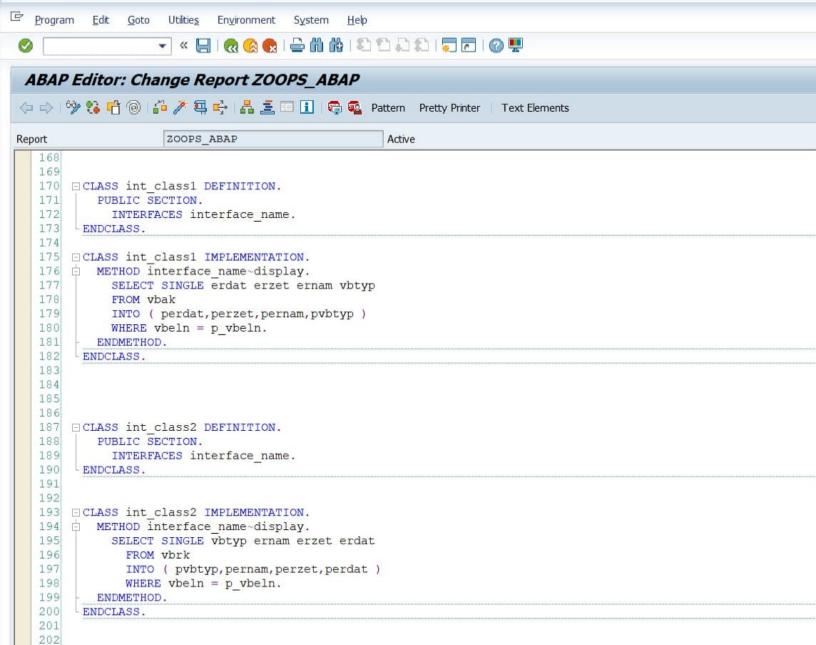
ENDMETHOD.

ENDCLASS.

```
97
 98
    CLASS zbilling DEFINITION INHERITING FROM zabstract.
100
        PUBLIC SECTION.
101
         METHODS display REDEFINITION.
102
    ENDCLASS.
103
104
105 CLASS zbilling IMPLEMENTATION.
106 mETHOD display.
107
     SELECT SINGLE vbtyp ernam erzet erdat
108
        FROM vbrk
109
        INTO ( pvbtyp, pernam, perzet, perdat )
110
           WHERE vbeln = p vbeln.
    - ENDMETHOD.
111
112
    - ENDCLASS.
113
114
     START-OF-SELECTION.
115
    DATA: obj01 TYPE REF TO zsales.
116
    DATA: obj02 TYPE REF TO zbilling.
117
    CREATE OBJECT obj01.
118
       CREATE OBJECT obj02.
119 \Box IF r1 = 'X'.
120
    CALL METHOD obj01->display
121
          EXPORTING
            pvbeln = p vbeln
122
123
           IMPORTING
124
             perdat = lv erdat
125
             perzet = lv erzet
126
             pernam = lv ernam
127
             pvbtyp = lv vbtypl.
128
         WRITE: / lv erdat,
129
                  lv erzet,
130
                  lv ernam,
131
                  lv vbtypl.
132
133
12/
```

```
132
133
134
135
        ELSEIF r2 = 'X'.
136
          CALL METHOD obj02->display
137
            EXPORTING
138
              pvbeln = p vbeln
139
            IMPORTING
140
              pvbtyp = lv vbtypl
141
              pernam = lv ernam
142
              perzet = lv erzet
              perdat = lv erdat.
143
144
145
146
          WRITE: / lv vbtypl,
147
                   lv ernam,
148
                   lv erzet,
149
                   lv erdat.
150
        ENDIF.
151
152
```





```
203
         START-OF-SELECTION.
  204
           DATA: objil TYPE REF TO int class1.
  205
         DATA: obji2 TYPE REF TO int class2.
  206
         CREATE OBJECT obji1.
  207
           CREATE OBJECT obji2.
  208
  209 F
          IF r1 = 'X'.
  210
  211
             CALL METHOD obji1->interface name-display
  212
               EXPORTING
  213
                 pvbeln = p vbeln
  214
               IMPORTING
  215
                perdat = lv erdat
  216
                perzet = lv erzet
  217
                pernam = lv ernam
  218
                 pvbtyp = lv vbtypl.
  219
  220
  221
             WRITE: 'The Sales Order Details are follows',
  222
                     lv erdat,
  223
                     lv erzet,
  224
                     lv ernam,
  225
                     lv vbtypl.
  226
  227
           ELSEIF r2 = 'X'.
  228
  229
             CALL METHOD obji2->interface name-display
  230
               EXPORTING
  231
                 pvbeln = p vbeln
  232
               IMPORTING
  233
                 pvbtyp = lv vbtypl
  234
                pernam = lv ernam
  235
                perzet = lv erzet
  236
                 perdat = lv erdat.
  237
  238
  239
             WRITE: 'The Billing Order Details are follows',
                                                                                                           ABAP
Scope: \CLASS zsales\METHOD display
```

202

```
238
239
          WRITE: 'The Billing Order Details are follows',
240
                  lv vbtypl,
241
                  lv ernam,
242
                  lv erzet,
243
                  lv erdat.
244
245
        ENDIF.
246
        "#Multiple Inheritance is Possible in Interface
    □ INTERFACE interface name1.
248
        METHODS sales IMPORTING pubeln TYPE vbeln va
249
                      EXPORTING perdat TYPE erdat
250
                                perzet TYPE erzet
251
                                pernam TYPE ernam
252
                                pybtyp TYPE vbtypl.
253
      ENDINTERFACE.
254
```

```
240
        ENDIE.
246
        "#Multiple Inheritance is Possible in Interface
247 INTERFACE interface namel.
248
        METHODS sales IMPORTING pubeln TYPE vbeln va
249
                       EXPORTING perdat TYPE erdat
250
                                 perzet TYPE erzet
251
                                 pernam TYPE ernam
252
                                 pybtyp TYPE vbtypl.
253
      ENDINTERFACE.
254
255
    □ INTERFACE interface name2.
256
        METHODS billing IMPORTING pubeln TYPE vbeln va
257
                         EXPORTING pubtup TYPE vbtupl
258
                                   pernam TYPE ernam
259
                                   perzet TYPE erzet
260
                                   perdat TYPE erdat.
261
      ENDINTERFACE.
262
263
    CLASS multi DEFINITION.
264
        PUBLIC SECTION.
265
          INTERFACES interface name1.
266
          INTERFACES interface name2.
267
      ENDCLASS.
268
269
    FICLASS multi IMPLEMENTATION.
270
        METHOD interface name1~sales.
271
          SELECT SINGLE erdat erzet ernam vbtyp
272
          FROM vbak
273
          INTO ( perdat, perzet, pernam, pvbtyp )
274
          WHERE vbeln = p vbeln.
275
        ENDMETHOD.
276
277
        METHOD interface name2~billing.
278
          SELECT SINGLE vbtyp ernam erzet erdat
279
            FROM vbrk
280
            INTO ( pvbtyp, pernam, perzet, perdat )
281
            WHERE vbeln = p vbeln.
                                                                                                         ABAP
```

```
262
263
    CLASS multi DEFINITION.
264
        PUBLIC SECTION.
265
          INTERFACES interface name1.
266
          INTERFACES interface name2.
267
      ENDCLASS.
268
269
    CLASS multi IMPLEMENTATION.
270
       METHOD interface name1~sales.
271
          SELECT SINGLE erdat erzet ernam vbtyp
272
          FROM vbak
273
          INTO ( perdat, perzet, pernam, pvbtyp )
274
          WHERE vbeln = p vbeln.
275
        ENDMETHOD.
276
277
        METHOD interface name2~billing.
278
          SELECT SINGLE vbtyp ernam erzet erdat
279
            FROM vbrk
280
            INTO ( pvbtyp, pernam, perzet, perdat )
281
            WHERE vbeln = p vbeln.
282
        ENDMETHOD.
283
284
      ENDCLASS.
285
286
```

```
286
287
      START-OF-SELECTION.
288
      DATA: object1 TYPE REF TO multi.
289
        CREATE OBJECT object1.
290
291 □
       IF r1 = 'X'.
292
293
          CALL METHOD object1->interface name1~sales
294
            EXPORTING
295
              pvbeln = p vbeln
296
           IMPORTING
297
              perdat = lv erdat
298
              perzet = lv erzet
299
              pernam = lv ernam
              pvbtyp = lv vbtypl.
300
301
302
          WRITE: 'The Sales Order Details are follows',
303
304
                  lv erdat,
305
                  ly erzet,
306
                  ly ernam,
307
                  lv vbtypl.
308
309
        ELSEIF r2 = 'X'.
310
311
          CALL METHOD object1->interface name2~billing
312
            EXPORTING
313
              pvbeln = p vbeln
314
            IMPORTING
315
              pvbtyp = lv vbtypl
316
            pernam = lv ernam
317
              perzet = lv erzet
318
              perdat = lv erdat.
319
220
```

```
308
309
        ELSEIF r2 = 'X'.
310
311
          CALL METHOD object1->interface name2~billing
312
            EXPORTING
313
              pvbeln = p vbeln
314
            IMPORTING
315
              pvbtyp = lv vbtypl
316
              pernam = lv ernam
317
              perzet = lv erzet
318
              perdat = lv erdat.
319
320
321
          WRITE: 'The Billing Order Details are follows',
322
                   lv vbtypl,
323
                   lv ernam,
324
                   lv erzet,
325
                   lv erdat.
326
327
        ENDIF.
328
220
```

	<u>E</u> dit <u>G</u> oto Utilitie <u>s</u> En <u>v</u> ironment		
0	- W H @ @ 😥		
ABAP	Editor: Change Report ZOOP	S ABAP	
	> % f @ A ≥ = + A ≥ =		t Elements
A		raccent Frecty Filiter 162	Lenens
Report	ZOOPS_ABAP	Active	
329			
330	"#OOPSEVENTS		
331			
	CLASS cl_event DEFINITION.		
333	PUBLIC SECTION.	. 1. (2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	
334	METHODS display IMPORTING		
335		perdat TYPE erdat	
336 337		perzet TYPE erzet	
337		pernam TYPE ernam pvbtyp TYPE vbtypl.	
339	EVENTS:no inputs, wrong inp		
340	ENDCLASS.	ucs.	
341	Direction.		
	CLASS cl event IMPLEMENTATION.		
	METHOD display.	"Triggering Event	
344	IF pybeln IS INITIAL.		
345	RAISE EVENT no inputs.		
346			
347	SELECT SINGLE erdat erze	t ernam vbtyp	
348	FROM vbak		
349	<pre>INTO (perdat, perzet, per</pre>	nam,pvbtyp)	
35.0	WHERE vbeln = p_vbeln.		
351			
352	RAISE EVENT wrong_inpu	ts.	
353	ENDIF.		
354	- ENDIF.		
355	- ENDMETHOD.		
356 357	PAUDOL A CO		
3.70.73	ENDCLASS.		

358	
359	CLASS event 1 DEFINITION.
360	PUBLIC SECTION. "Event Handler
361	METHODS message FOR EVENT no inputs OF cl event.
362	METHODS msg FOR EVENT wrong inputs OF cl event.
363	
364	LENDCLASS.
365	
366	□ CLASS event_1 IMPLEMENTATION.
367	METHOD message.
368	WRITE: 'Please Enter Inputs'.
369	- ENDMETHOD.
370	
371	
372	
373	
374	
375	
376	

```
377
      START-OF-SELECTION.
378
379
        DATA: eve obj1 TYPE REF TO cl event.
        DATA: eve_obj2 TYPE REF TO event 1.
380
381
        CREATE OBJECT eve obj1.
382
        CREATE OBJECT eve obj2.
383
384
        "registering Event Handler.
385 E
        IF p vbeln IS INITIAL.
386
          SET HANDLER eve obj2->message FOR eve obj1.
387
        ELSE.
388
          SET HANDLER eve obj2->msg FOR eve obj1.
389
        ENDIF.
390
391
        CALL METHOD eve obj1->display
392
          EXPORTING
393
            pvbeln = p vbeln
394
          IMPORTING
            perdat = lv erdat
396
           perzet = lv_erzet
397
           pernam = lv ernam
398
            pvbtyp = lv vbtypl.
400 □
        IF 1v erdat IS NOT INITIAL AND 1v erzet IS NOT INITIAL AND 1v ernam IS NOT INITIAL AND 1v erdat IS NOT INITIAL AND 1v vbtypl IS NOT INITIAL.
401
          WRITE: / lv erdat,
402
                lv_erzet,
403
                lv ernam,
404
                lv vbtypl.
405
        ENDIF.
```

376