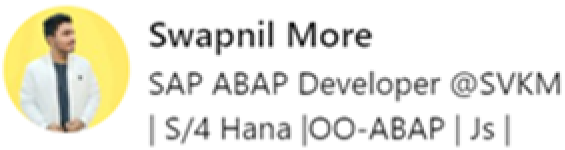
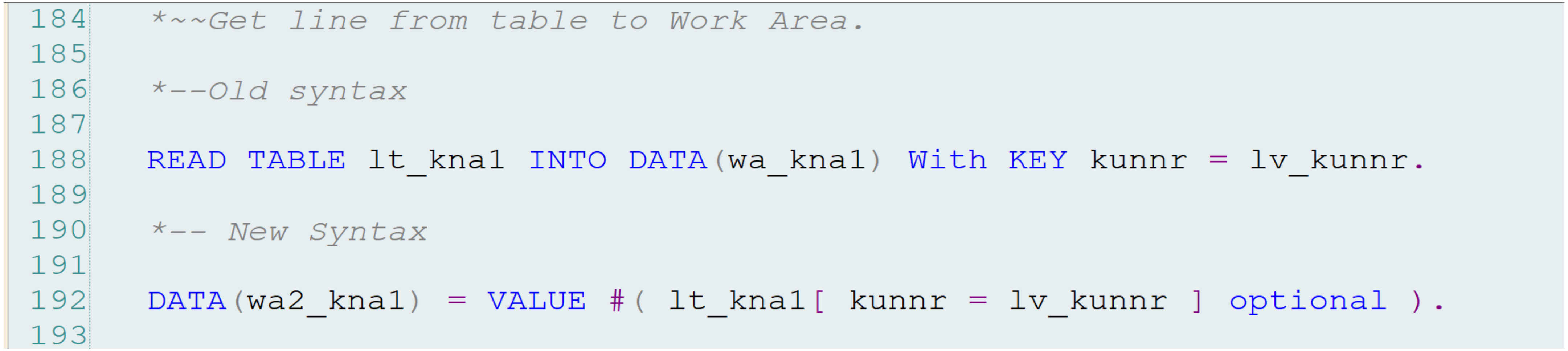
# Alternate way of READ TABLE

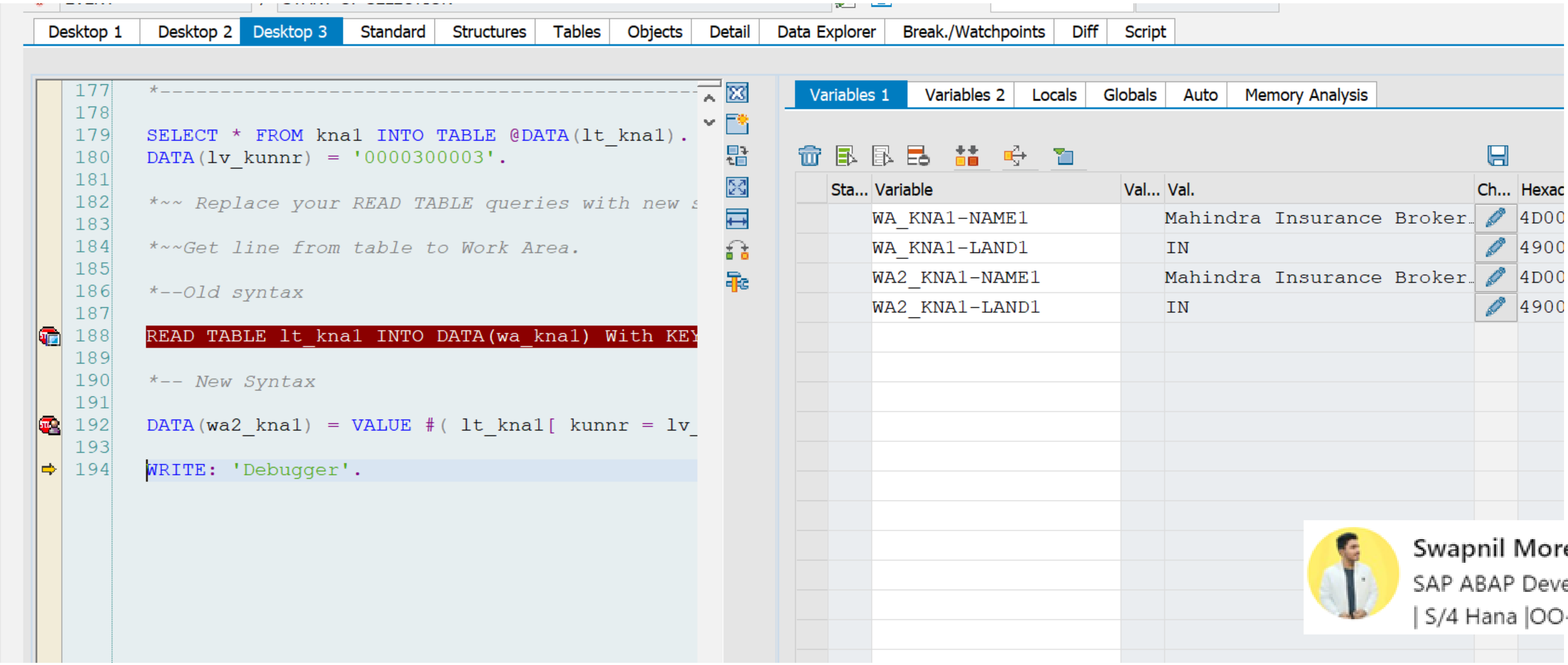
- Alternate syntax you can use instead of READ TABLE
- New syntax of doing same
- Reduce number of lines
- Facing challenges while debugging with new syntax ?



Swapnil More
SAP ABAP Developer @SVKM
| S/4 Hana |OO-ABAP | Js |



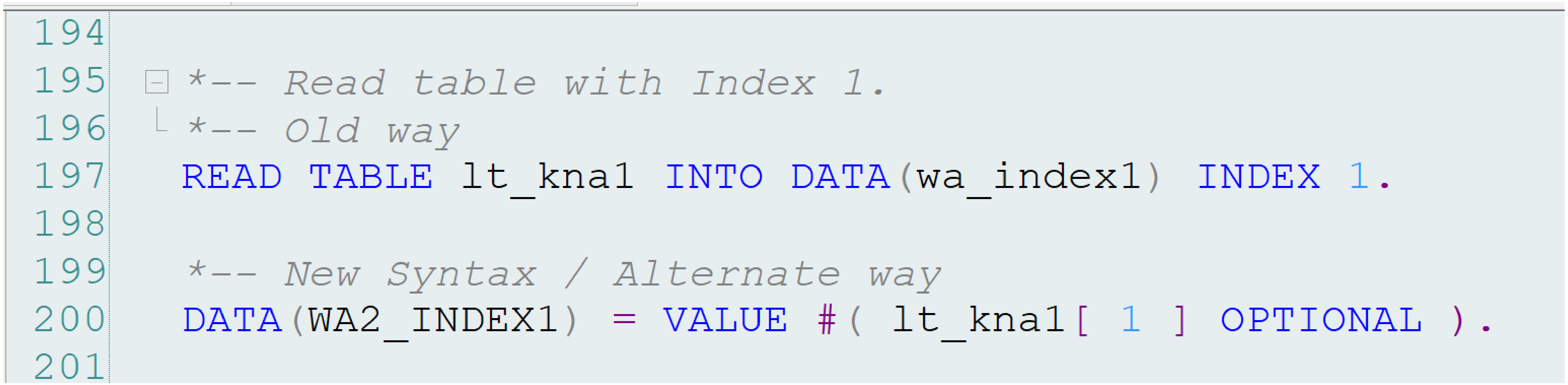
```
*~~Get line from table to Work Area.

*--Old syntax

READ TABLE lt_kna1 INTO DATA(wa_kna1) With KEY kunnr = lv_kunnr.

*-- New Syntax

DATA(wa2_kna1) = VALUE #( lt_kna1[ kunnr = lv_kunnr ] optional ).

```



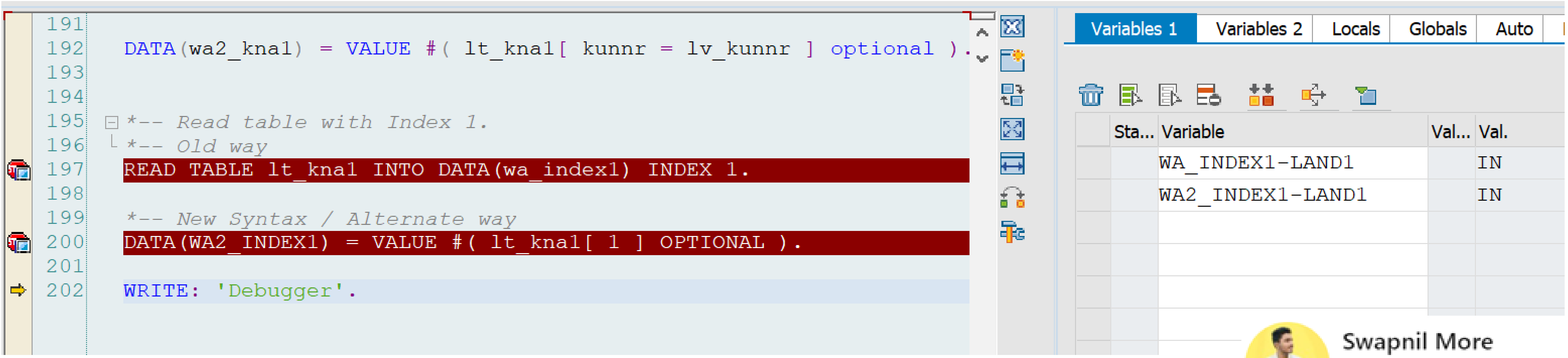
```
*-----------------------------------------------

SELECT * FROM kna1 INTO TABLE @DATA(lt_kna1).
DATA(lv_kunnr) = '0000300003'.

*~~ Replace your READ TABLE queries with new s

*~~Get line from table to Work Area.

*--Old syntax

READ TABLE lt_kna1 INTO DATA(wa_kna1) With KEY

*-- New Syntax

DATA(wa2_kna1) = VALUE #( lt_kna1[ kunnr = lv_

WRITE: 'Debugger'.
```

| Sta... | Variable | Val... | Val. | Ch... | Hexad |
|---|---|---|---|---|---|
| | WA_KNA1-NAME1 | | Mahindra Insurance Broker_ | | 4D00 |
| | WA_KNA1-LAND1 | | IN | | 4900 |
| | WA2_KNA1-NAME1 | | Mahindra Insurance Broker_ | | 4D00 |
| | WA2_KNA1-LAND1 | | IN | | 4900 |

Swapnil More
SAP ABAP Developer @SVKM
| S/4 Hana |OO-ABAP | Js |



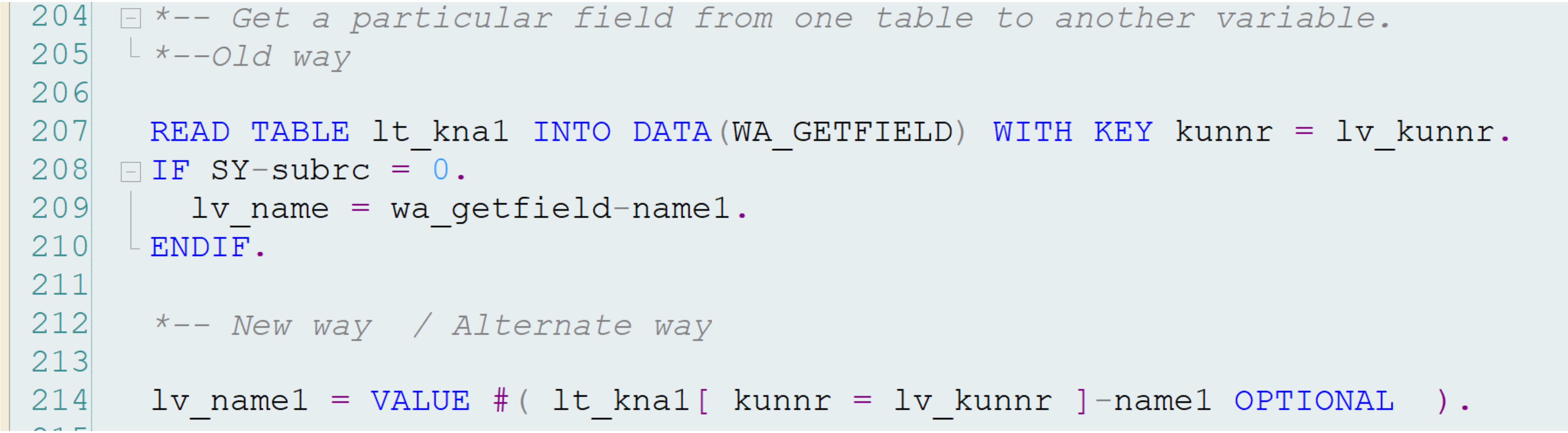
```
*-- Read table with Index 1.
*-- Old way
READ TABLE lt_kna1 INTO DATA(wa_index1) INDEX 1.

*-- New Syntax / Alternate way
DATA(WA2_INDEX1) = VALUE #( lt_kna1[ 1 ] OPTIONAL ).

```



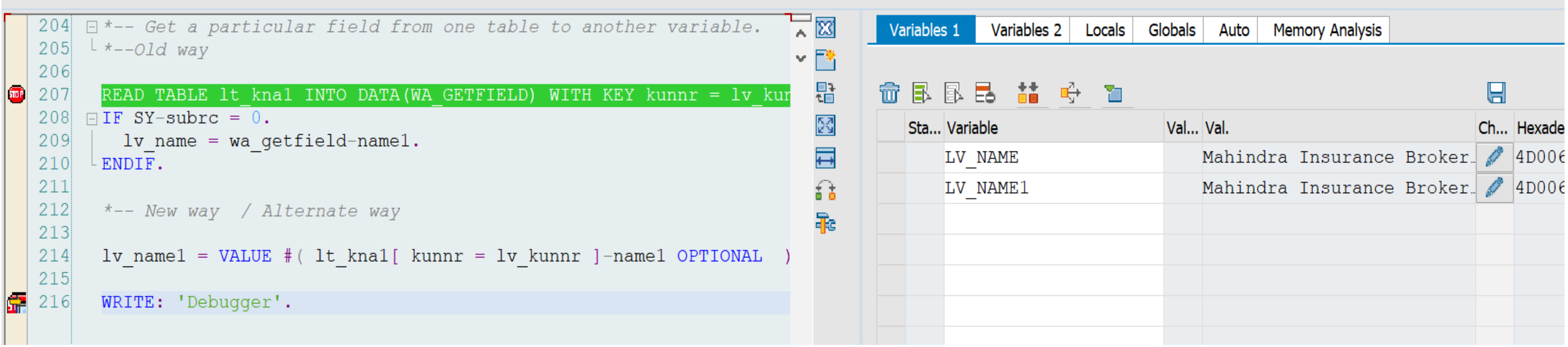
```

DATA(wa2_kna1) = VALUE #( lt_kna1[ kunnr = lv_kunnr ] optional ).


*-- Read table with Index 1.
*-- Old way
READ TABLE lt_kna1 INTO DATA(wa_index1) INDEX 1.

*-- New Syntax / Alternate way
DATA(WA2_INDEX1) = VALUE #( lt_kna1[ 1 ] OPTIONAL ).

WRITE: 'Debugger'.
```

| Sta... | Variable | Val... | Val. |
|---|---|---|---|
| | WA_INDEX1-LAND1 | | IN |
| | WA2_INDEX1-LAND1 | | IN |

Swapnil More
SAP ABAP Developer @SVKM
| S/4 Hana |OO-ABAP | Js |



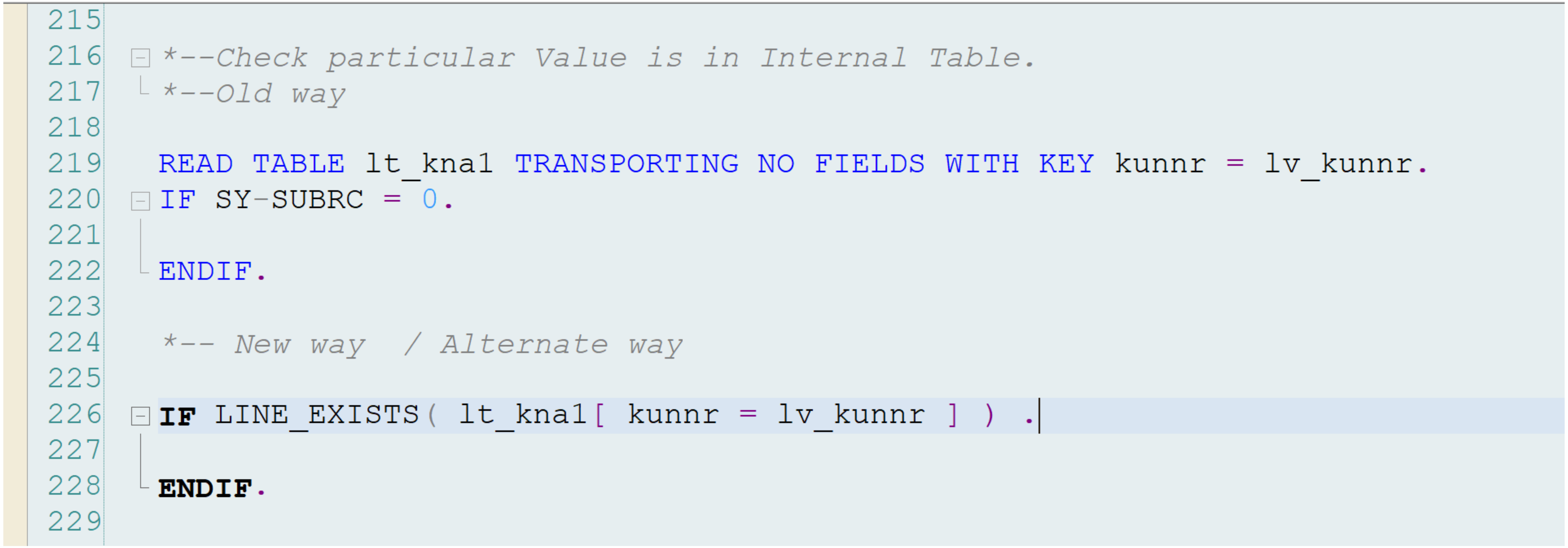
```
*-- Get a particular field from one table to another variable.
*--Old way

READ TABLE lt_kna1 INTO DATA(WA_GETFIELD) WITH KEY kunnr = lv_kunnr.
IF SY-subrc = 0.
  lv_name = wa_getfield-name1.
ENDIF.

*-- New way  / Alternate way

lv_name1 = VALUE #( lt_kna1[ kunnr = lv_kunnr ]-name1 OPTIONAL  ).
```



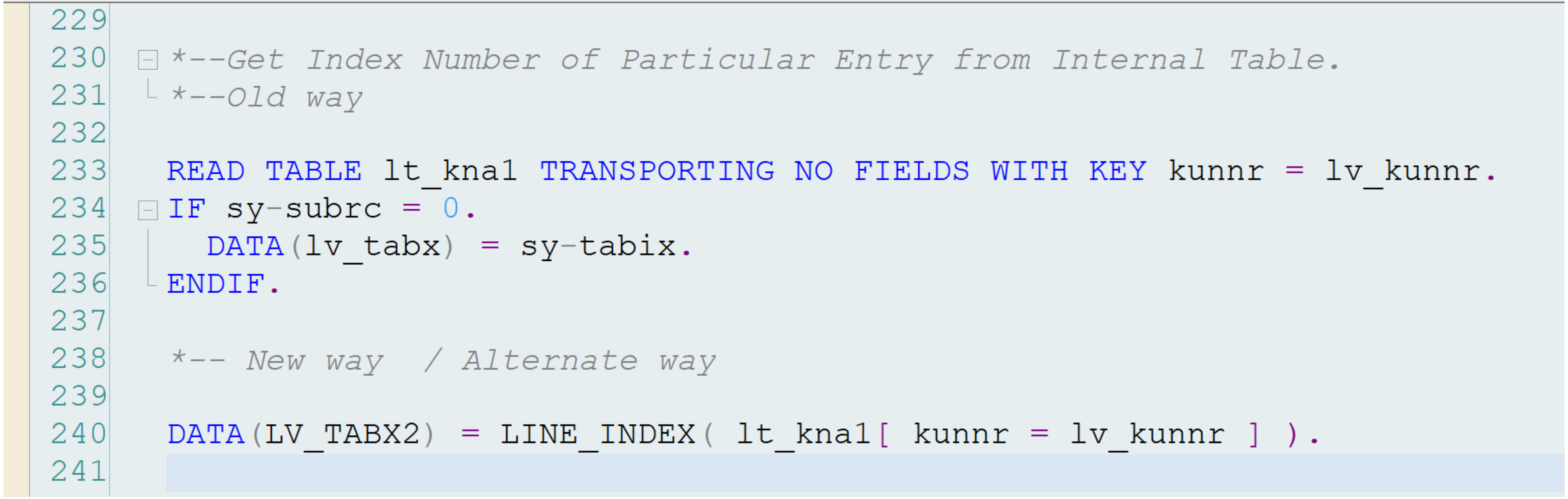
```
*-- Get a particular field from one table to another variable.
*--Old way

READ TABLE lt_kna1 INTO DATA(WA_GETFIELD) WITH KEY kunnr = lv_kur
IF SY-subrc = 0.
  lv_name = wa_getfield-name1.
ENDIF.

*-- New way  / Alternate way

lv_name1 = VALUE #( lt_kna1[ kunnr = lv_kunnr ]-name1 OPTIONAL  )

WRITE: 'Debugger'.
```

| Sta... | Variable | Val... | Val. | Ch... | Hexade |
|---|---|---|---|---|---|
| | LV_NAME | | Mahindra Insurance Broker… | | 4D006 |
| | LV_NAME1 | | Mahindra Insurance Broker… | | 4D006 |

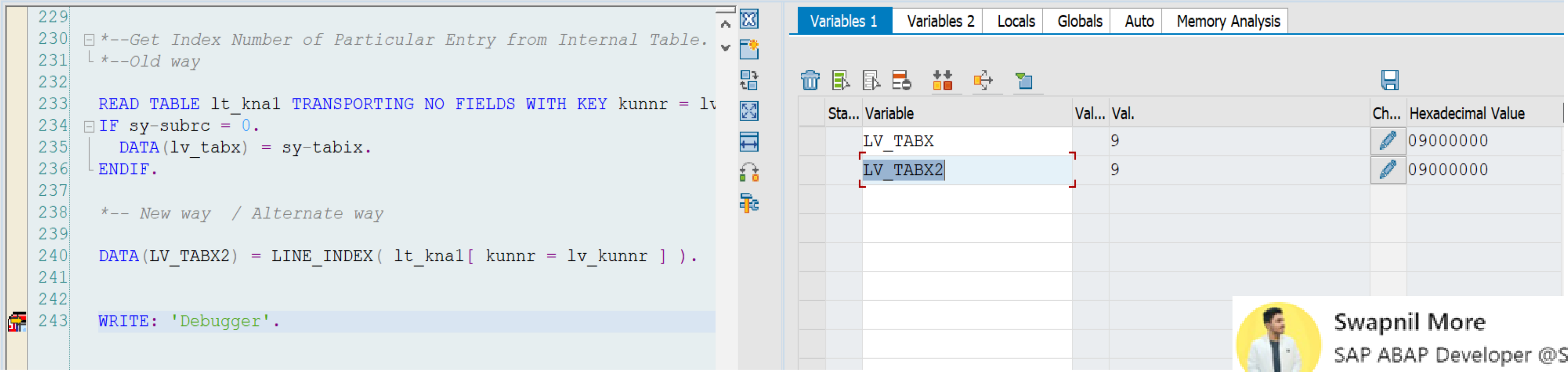
Swapnil More
SAP ABAP Developer @SVKM
| S/4 Hana |OO-ABAP | Js |



```

*--Check particular Value is in Internal Table.
*--Old way

READ TABLE lt_kna1 TRANSPORTING NO FIELDS WITH KEY kunnr = lv_kunnr.
IF SY-SUBRC = 0.

ENDIF.

*-- New way  / Alternate way

IF LINE_EXISTS( lt_kna1[ kunnr = lv_kunnr ] ) .

ENDIF.

```



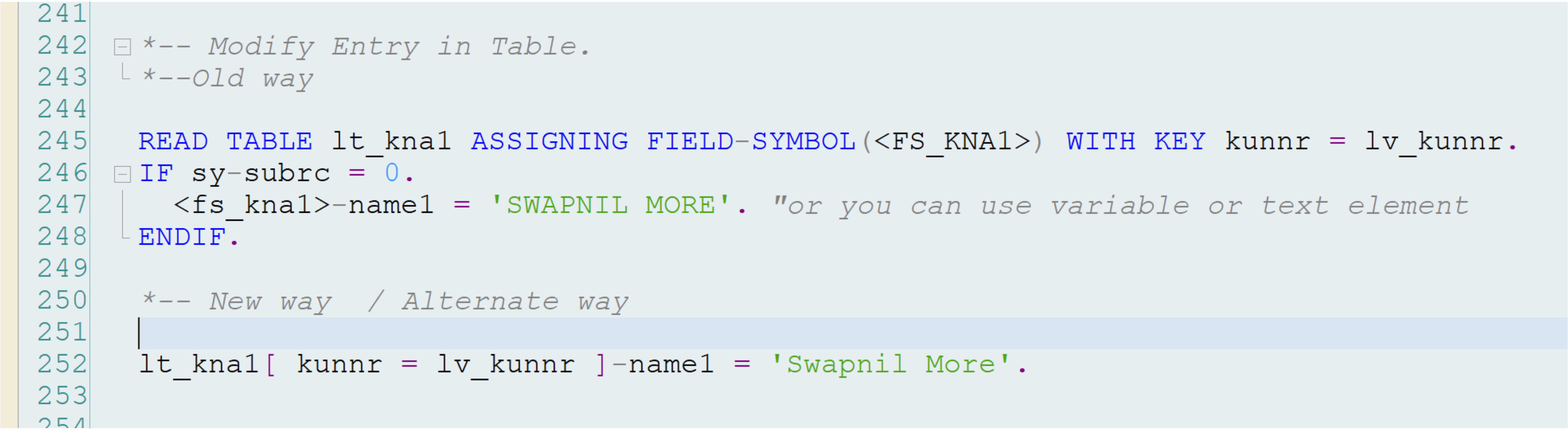
```
*--Get Index Number of Particular Entry from Internal Table.
*--Old way

READ TABLE lt_kna1 TRANSPORTING NO FIELDS WITH KEY kunnr = lv_kunnr.
IF sy-subrc = 0.
  DATA(lv_tabx) = sy-tabix.
ENDIF.

*-- New way  / Alternate way

DATA(LV_TABX2) = LINE_INDEX( lt_kna1[ kunnr = lv_kunnr ] ).
```



```
*--Get Index Number of Particular Entry from Internal Table.
*--Old way

READ TABLE lt_kna1 TRANSPORTING NO FIELDS WITH KEY kunnr = lv
IF sy-subrc = 0.
  DATA(lv_tabx) = sy-tabix.
ENDIF.

*-- New way  / Alternate way

DATA(LV_TABX2) = LINE_INDEX( lt_kna1[ kunnr = lv_kunnr ] ).


WRITE: 'Debugger'.
```

| Sta... | Variable | Val... | Val. | Ch... | Hexadecimal Value |
|---|---|---|---|---|---|
| | LV_TABX | | 9 | | 09000000 |
| | LV_TABX2 | | 9 | | 09000000 |

Swapnil More
SAP ABAP Developer @SVKM
| S/4 Hana |OO-ABAP | Js |



```

*-- Modify Entry in Table.
*--Old way

READ TABLE lt_kna1 ASSIGNING FIELD-SYMBOL(<FS_KNA1>) WITH KEY kunnr = lv_kunnr.
IF sy-subrc = 0.
  <fs_kna1>-name1 = 'SWAPNIL MORE'. "or you can use variable or text element
ENDIF.

*-- New way  / Alternate way

lt_kna1[ kunnr = lv_kunnr ]-name1 = 'Swapnil More'.

```

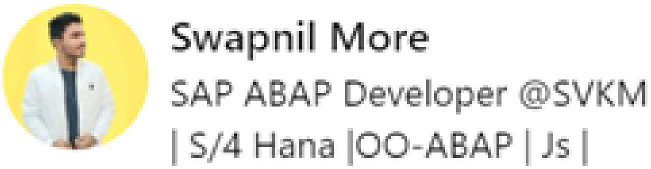
Swapnil More
SAP ABAP Developer @SVKM
| S/4 Hana |OO-ABAP | Js |

**Note:** While Using these Syntaxes in case of Table Expression use with **Try <> Catch with *cx_sy_itab_line_not_found* EndTry** block.

GitHub link : Access direct code
https://github.com/swapnilm06/SAP-ABAP-HANA/blob/main/New%20syntax%20of%20READ%20table.txt

Swapnil More
SAP ABAP Developer @SVKM
| S/4 Hana |OO-ABAP | Js |

# REPOST….SHARE….FOLLOW



Swapnil More

SAP ABAP Developer @SVKM
| S/4 Hana |OO-ABAP | Js |

Follow

Click here