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Published Code

```
1 " Data declaration
2 DATA lv_temperature TYPE p DECIMALS 2.
3 DATA lv_adjustment TYPE p DECIMALS 2.
4 DATA lv_condition_amount TYPE p DECIMALS 2.
5 DATA lv_error TYPE string.
6
7 " Mandatory move of importing parameters to changing parameters
8 MOVE-CORRESPONDING item_amounts TO item_result_amounts.
9 MOVE-CORRESPONDING item_attributes TO item_result_attributes.
10 MOVE-CORRESPONDING item_quantities TO item_result_quantities.
11 MOVE-CORRESPONDING prog_element_attributes TO prog_element_result_amounts.
12 MOVE-CORRESPONDING active_price_amounts TO active_price_result_amounts.
13
14 " Fetch temperature from the specified table field
15 lv_temperature = item_attributes-yyi_temperature_pci.
16
17 " Check if temperature is above 20 degrees
18 IF lv_temperature > 20.
19 " Calculate the price adjustment: decrease by 10% for every 2 degrees above 20
20 lv_adjustment = ( ( lv_temperature - 20 ) / 2 ) * ( prog_element_attributes-conditionamount / 10 ).
21 " Adjust the condition base value based on temperature
22 lv_condition_amount = prog_element_attributes-conditionamount - lv_adjustment.
23 " Set the adjusted condition amount back to the structure
24 prog_element_result_amounts-conditionamount = lv_condition_amount.
25 ENDIF.
```

Scrutinizing ABAP GenAI example from SAP Sapphire keynote

**Lars Hvam Petersen**

Senior SAP/ABAP Consultant at Heliconia Labs

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Below is the code example from yesterdays SAP Sapphire Keynote,

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23 " Set the adjusted condition amount back to the structure
24 prog_element_result_amounts-conditionamount = lv_condition_amount.
25 ENDIF.
```

ABAP GenAI example

At the point of writing, its not possible to replay the keynote, as it was taken down from YouTube, and not available on the Sapphire Virtual homepage.

But, given a prompt the above code was generated. This happened at the main keynote, the feature was **announced 6+ months** ago, and this being a keynote I think its okay to look into every detail of it. At a keynote SAP has full control of what to show and how, and I do assume there is a review step as to what goes into the keynote.

On top of this, SAP advocates clean core, clean code, clean everything, so what SAP shows on the keynote I assume SAP certifies as clean.

Lets go,

A: Indentation is off

Indentation in ABAP is typically 2 spaces, looking at line 2 its one space, while line 14 and 15 are actually aligned vertically its still one off. Line 19 and 20 doesn't follow the lines after it inside the IF

B: Hungarian notation mix

Using Hungarian notation or not is a big topic in ABAP. However most agree that mixing both in the same code is bad practice.

C: Parentheses

In line 20, the leftmost and right most parentheses can be removed.

D: Types

Using "TYPE p DECIMALS 2" is not something I've seen very often, and looking in the parameters indicates that the fields are "Decfloat" which is a different type.

This might be an error and worst case cause dumps, might also be okay. I don't have access to a system to verify.

The modern subtracting move "-=" can be used to reduce the amount of code

Just put the example into <https://playground.abaplint.org>, and it will hint the developer with many of the above

So, what about something like the below, did I forget anything?

```
item_result_amounts = CORRESPONDING #( item_amounts
).
item_result_attributes = CORRESPONDING #(
item_attributes ).
item_result_quantities = CORRESPONDING #(
item_quantities ).
prcg_element_result_amounts = CORRESPONDING #(
prcg_element_attributes ).
active_price_result_amounts = CORRESPONDING #(
active_price_amounts ).

DATA(lv_temperature) = item_attributes-
yy_temperature_pci.

" when the weather is good, people buy more ice
cream, so we reduce the price
IF lv_temperature > 20.
    prcg_element_result_amounts-conditionamount -= (
lv_temperature - 20 ) / 2 ) *
    ( prcg_element_attributes-conditionamount / 10
).
ENDIF.
```

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Lars Hvam Petersen

Senior SAP/ABAP Consultant at Heliconia Labs
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Scrutinizing [#ABAP](#) GenAI example from SAP Sapphire keynote



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Lars Hvam Petersen

Senior SAP/ABAP Consultant at Heliconia Labs


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