


Topics:

- Often used transactions
- What is ABAP/4 program?
- ABAP dictionary**
-  Function Module
- Message
- Transaction code
- Authorization in ABAP object

LOOP Command Example

```
LOOP AT IT_T001K.  
  WRITE: / IT_T001K-BWKEY.  
ENDLOOP.
```

WRITE Command

The basic ABAP statement for displaying data on the screen

```
WRITE <f> <AT position(length)>  
      <option>  
      <AS CHECKBOX>  
      <AS SYMBOL>  
      <AS ICON>  
      <AS LINE>
```

WRITE Command

- *<OPTION>* behind the WRITE statement is for formatting options
- E.g. : ..NO-ZERO, NO-SIGN, No GROUPING, DD/MM/YY,
 - LEFT-JUSTIFIED, CENTERED, RIGHT-JUSTIFIED
- The most commonly used options:
 - CURRENCY w
to treat the content of field <f> as a currency amount with w as a currency key
 - DECIMALS d
to determine number of decimals to be displayed
 - UNIT u
to format the value according to the unit specified in the field u.
The content of field <f> is treated as a quantity.

WRITE Command Example

```
WRITE: / 'Write'.
```

```
WRITE: it_bseg-dmbtr CURRENCY it_bkpf-hwaer.
```

```
WRITE: text-t01 LEFT-JUSTIFIED.
```

Comment

- Written between statements of the ABAP program to explain its purpose to a reader / for internal documentation
- Helps to understand and change the program
- Flagged by special character:
 - Asterisk (*) entire line to be a comment
 - Double quotation mark (“) part of a line to be a comment
- Ignored by the system

Comment example

```
* Write Sales Order number to the screen  
Write: 'Sales Order : ',  
      20 it_vbak-vbeln. "Sales Order Number
```

Expression & Operation

- Relational Operator
- String Comparison
- Logical Expression
- If/Case/Check Statement
- Exit/Continue Statement

ABAP statement and Keyword(con't)

Relational Operator

```
DATA: START TYPE D,  
      SUM1  TYPE F,  
      SUM2  TYPE P.  
      .  
      .  
IF START IS INITIAL ... .  
IF SUM1 GT SUM2 ... .  
  
IF SUM1 BETWEEN 0 AND  
100 ... .
```

Display	Meaning
EQ =	Equal to
NE <> ><	Not equal to
GT >	Greater than
GE >= =>	Greater than or equal to
LT <	Smaller than
LE <= =<	Smaller than or equal to
BETWEEN <i>f1</i> and <i>f2</i>	Interval
IS INITIAL	Initial value

String Comparison

`<f1> CO <f2>` contains only: *f1* contains only characters from *f2*
ACCOUNT CO '0123456789'

`<f1> CA <f2>` contains any: *f1* contains at least one character from *f2*

`<f1> CS <f2>` contains string: *f1* contains the string *f2*
'ABCDE' CS 'DE'

`<f1> CP <f2>` contains pattern: *f1* corresponds to the model *f2*
Model:
* any string
+ any character
escape symbol
'ABXDE' CP '*B+D*'