

# SDN Community Contribution

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## **Applies To:**

SAP R/3 4.6C – SMART FORMS

## **Summary**

This document illustrates how to use subroutines in Smart Forms and how to pass select-option from a program to SmartForm. This also explains how to do the coding in Program lines in ABAP.

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## Subroutine

In this, we are using subroutine inside the SmartForm to calculate the variable cnt for each Matnr. After that, we are calling the SmartForm from the report.

## Procedure

Go to the transaction 'Smartforms'.

Create Form (say ZZZ\_JAYTEST).

In Global Definition->Global Data, declare the following.

Var.Name	Type	Ref. type	Default Value
MARA	TYPE	MARA	
ITAB	TYPE STANDARD TABLE OF	MARA	
WA	TYPE	MARA	
CNT	TYPE	I	0

Then in Global Data->Form Routines

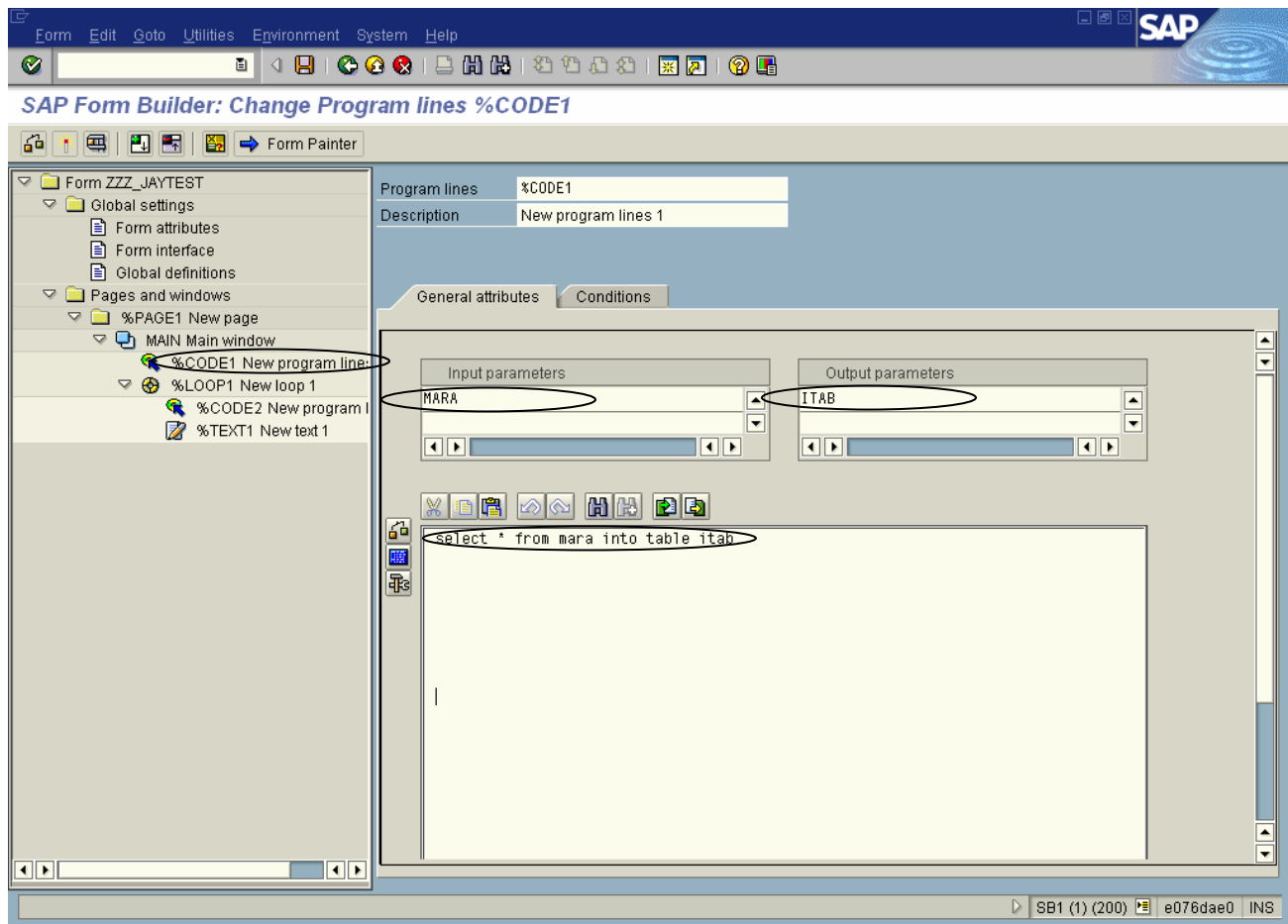
Write the form coding there.

form calculate changing cnt.

cnt = cnt + 1.

endform.

Then right click main window and create Program line.



Since input is coming from mara, we need to declare MARA as input parameter. Since we are writing the output on itab, we need to declare itab as output parameter. Then write the required coding as mentioned above.

Then right click %CODE1 New Program line in left as marked above. Then create a loop.  
In that loop->Data.  
Internal table ITAB into WA.

Then right click the %Loop New Loop1 in left and create a Program line to call the subroutine.

In that declare

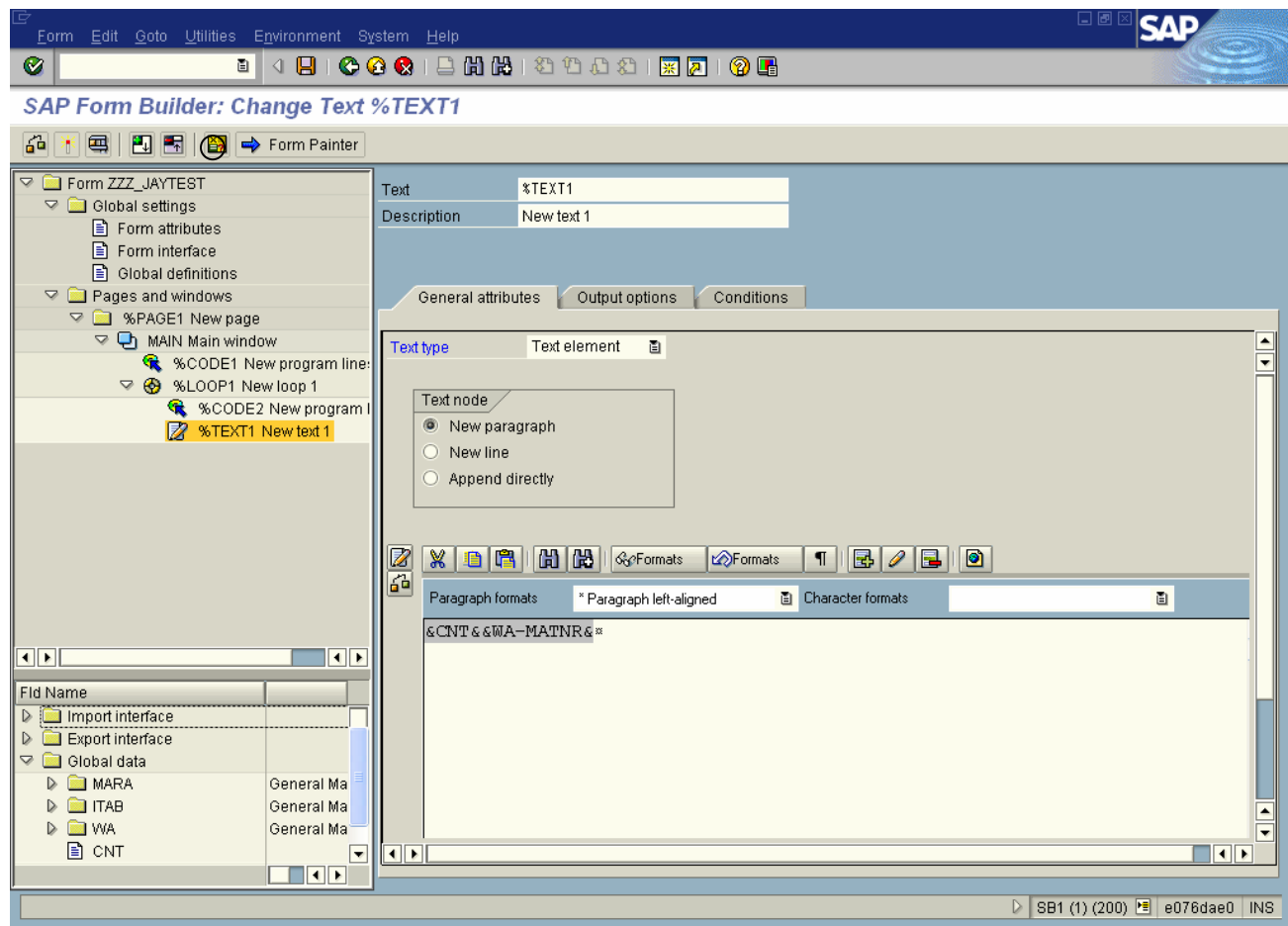
CNT as both input and output parameters.

In the coding part, write as below.

perform calculate using cnt.

Then create text element by right clicking the Program line just created.

Drag the required fields by Clicking Field List On/Off Icon. Then activate the SmartForm.



## Code

Create a Report(say ZZZ\_JAYTEST) and write the following code.

```
REPORT zzz_jaytest .

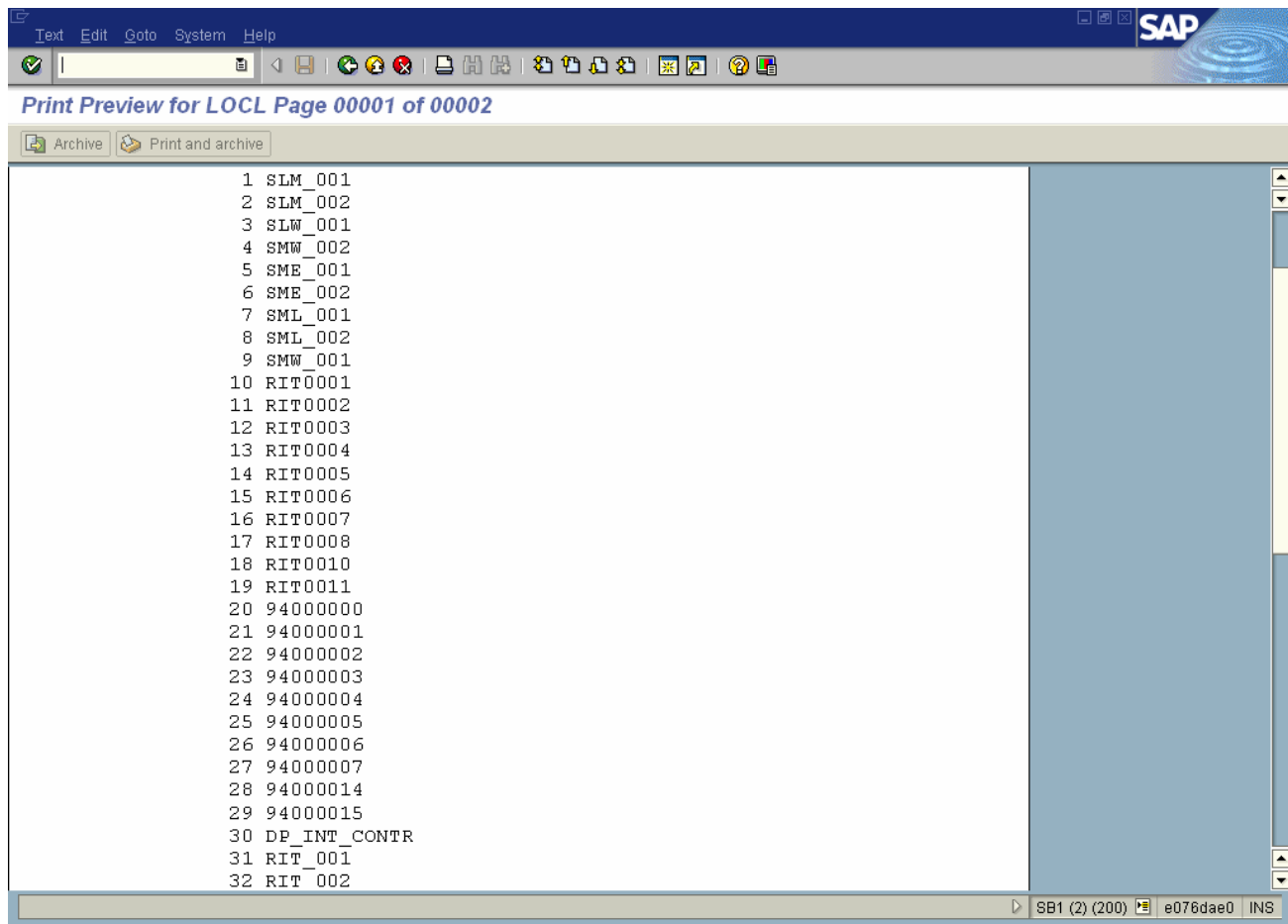
data : v_form_name TYPE rs381_fnam.

call function 'SSF_FUNCTION_MODULE_NAME'
  exporting
    formname          = 'ZZZ_JAYTEST'
  importing
    fm_name           = v_form_name
  exceptions
    no_form            = 1
    no_function_module = 2
    others             = 3.
IF sy-subrc <> 0.
  MESSAGE ID sy-msgid TYPE sy-msgty NUMBER sy-msgno
    WITH sy-msgv1 sy-msgv2 sy-msgv3 sy-msgv4.
ENDIF.

CALL FUNCTION v_form_name
  EXCEPTIONS
    FORMATTING_ERROR      = 1
    INTERNAL_ERROR        = 2
    SEND_ERROR            = 3
    USER_CANCELED         = 4
    OTHERS                 = 5.
IF sy-subrc <> 0.
  MESSAGE ID SY-MSGID TYPE SY-MSGTY NUMBER SY-MSGNO
    WITH SY-MSGV1 SY-MSGV2 SY-MSGV3 SY-MSGV4.
ENDIF.
```

## Output Screens

Activate and Execute the program. In that fill LOCL as Output Screen and click print preview.



## Passing Select-option

In this, we are passing the select-option from report to SmartForm.

## Procedure

Go to SE11 and create a structure(say ZZZ\_SELECTOPTION) as below and activate it.

ZZZ\_SELECTOPTION Struture:

SIGN	CHAR1	CHAR 1
OPTION	OPTION	CHAR 2

LOW	MATNR	CHAR 18
HIGH	MATNR	CHAR18

Go to the transaction 'Smartforms'.  
Create Form(say ZZZ\_TEST3).

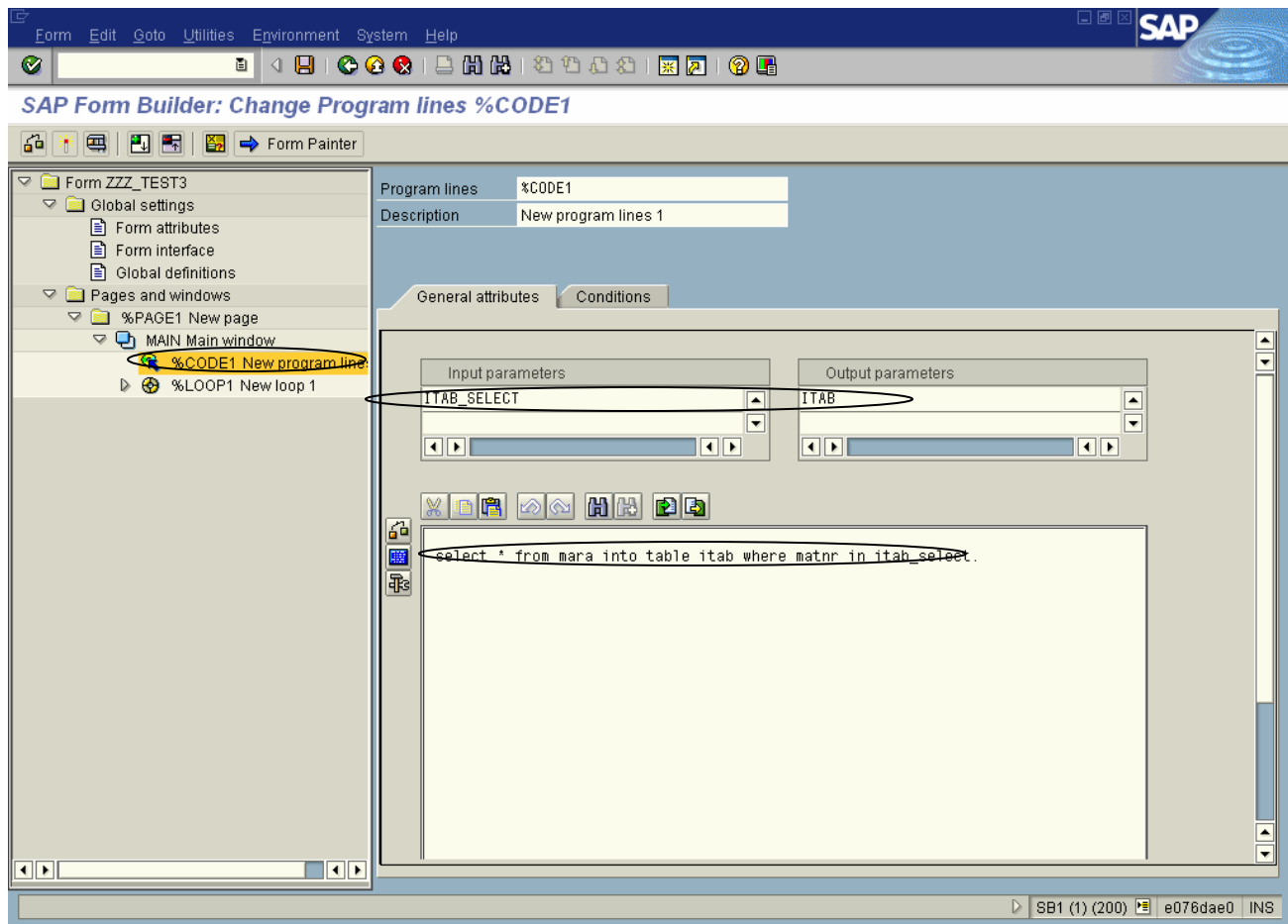
In Form Interface->table, declare the following.

```
ITAB_SELECT      LIKE  ZZZ_SELECTOPTION
```

In Global Definition->Global Data, declare the following.

MARA	TYPE		MARA
ITAB	TYPE STANDARD TABLE OF		MARA
WA	TYPE		MARA

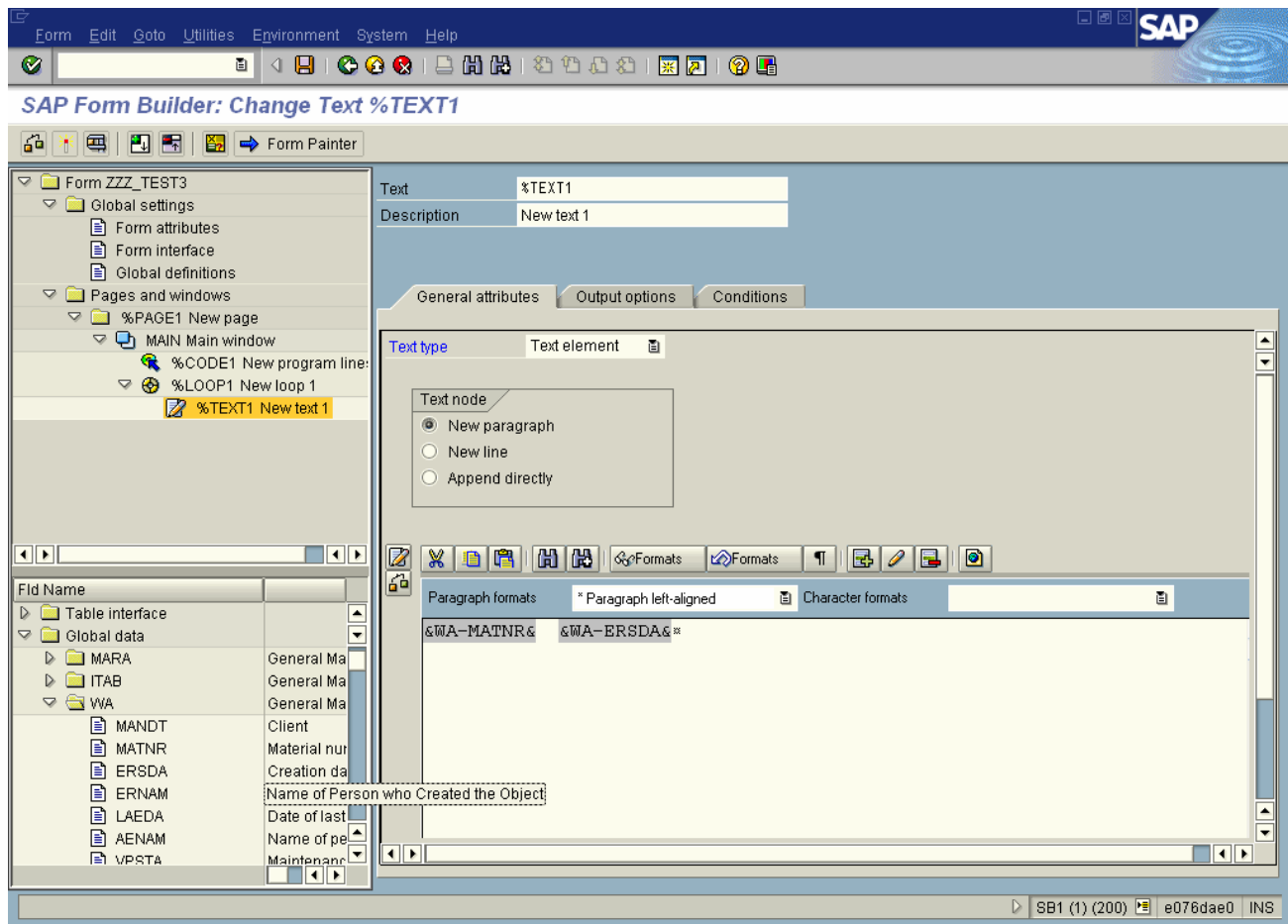
Right the Main window and create Program line. Declare the input and output parameters and write the coding as mentioned below.



Right click the %Code1 New program line and create a loop.

In Loop->Data, declare as  
Internal table itab into wa

Right click the loop just created above and create a text element. Click Field List on/Off and drag the fields.



Then activate the SmartForm.

## Code

### \* Tables Declaration

Tables : MARA.

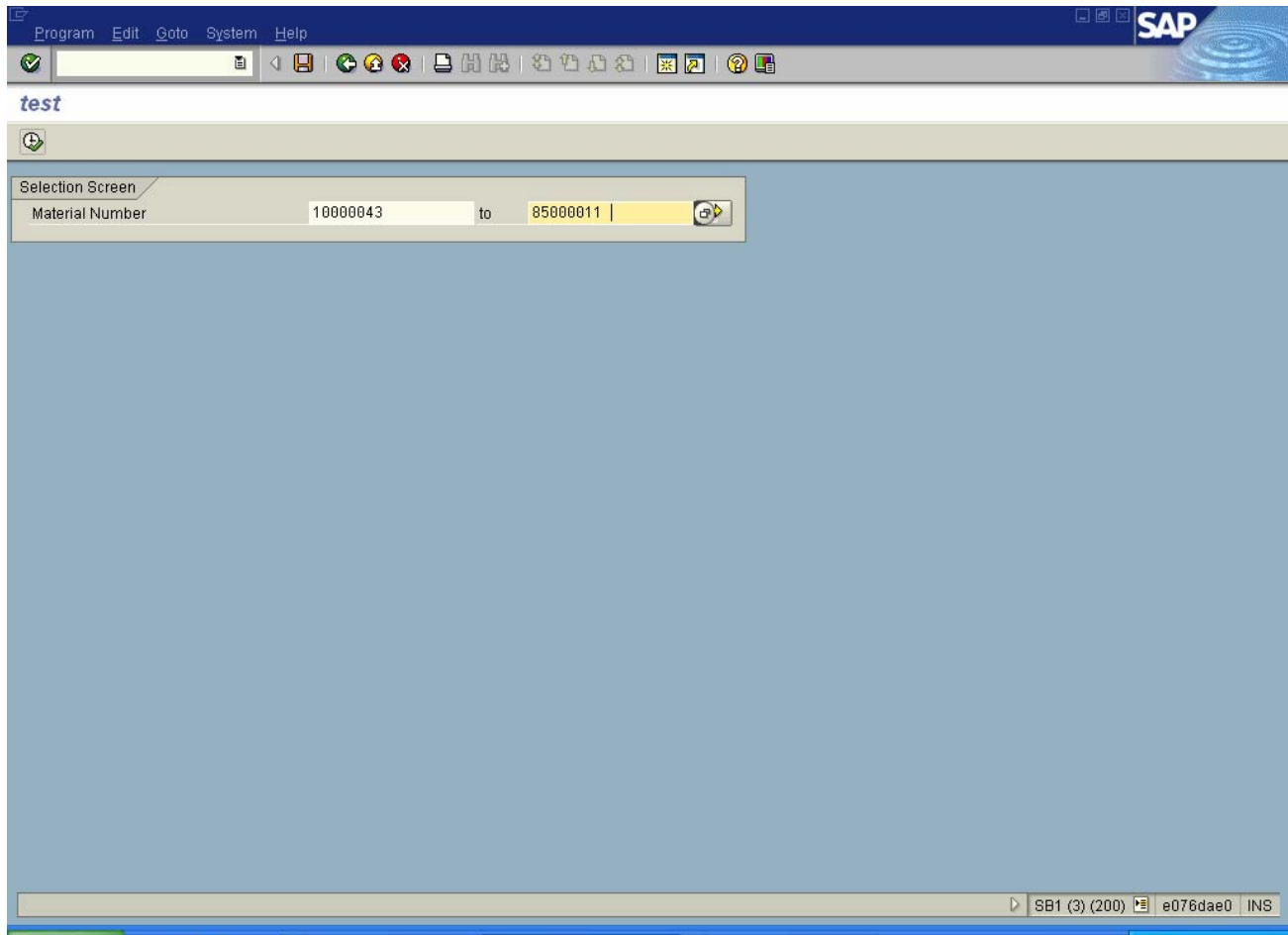
```
SELECTION-SCREEN BEGIN OF BLOCK B1 WITH FRAME TITLE TEXT-001.
SELECT-OPTIONS : S_MATNR FOR MARA-MATNR .
SELECTION-SCREEN END OF BLOCK B1.
```

```
data : v_form_name TYPE rs381_fnam.
```

```
call function 'SSF_FUNCTION_MODULE_NAME'
  exporting
    formname          = 'ZZZ_TEST3'
  importing
    fm_name           = v_form_name
  exceptions
    no_form           = 1
    no_function_module = 2
    others            = 3.
IF sy-subrc <> 0.
  MESSAGE ID sy-msgid TYPE sy-msgty NUMBER sy-msgno
    WITH sy-msgv1 sy-msgv2 sy-msgv3 sy-msgv4.
ENDIF.
```

```
CALL FUNCTION v_form_name
  TABLES
    itab_select       = s_matnr
  EXCEPTIONS
    FORMATTING_ERROR  = 1
    INTERNAL_ERROR    = 2
    SEND_ERROR        = 3
    USER_CANCELED     = 4
    OTHERS            = 5.
IF sy-subrc <> 0.
  MESSAGE ID SY-MSGID TYPE SY-MSGTY NUMBER SY-MSGNO
    WITH SY-MSGV1 SY-MSGV2 SY-MSGV3 SY-MSGV4.
ENDIF.
```

## Output Screens



Print

OutputDevice: **LOCL**

Copies: 1

Page selection:

Spool request

Name: SMART H0TPX001

Title:

Authorization:

Output Controller

☐ Print immediately

☐ Delete after print

☐ New spool request

☐ Close spool request

Spool retention per. 8 Day(s)

Archiving mode: Print only

Cover sheet

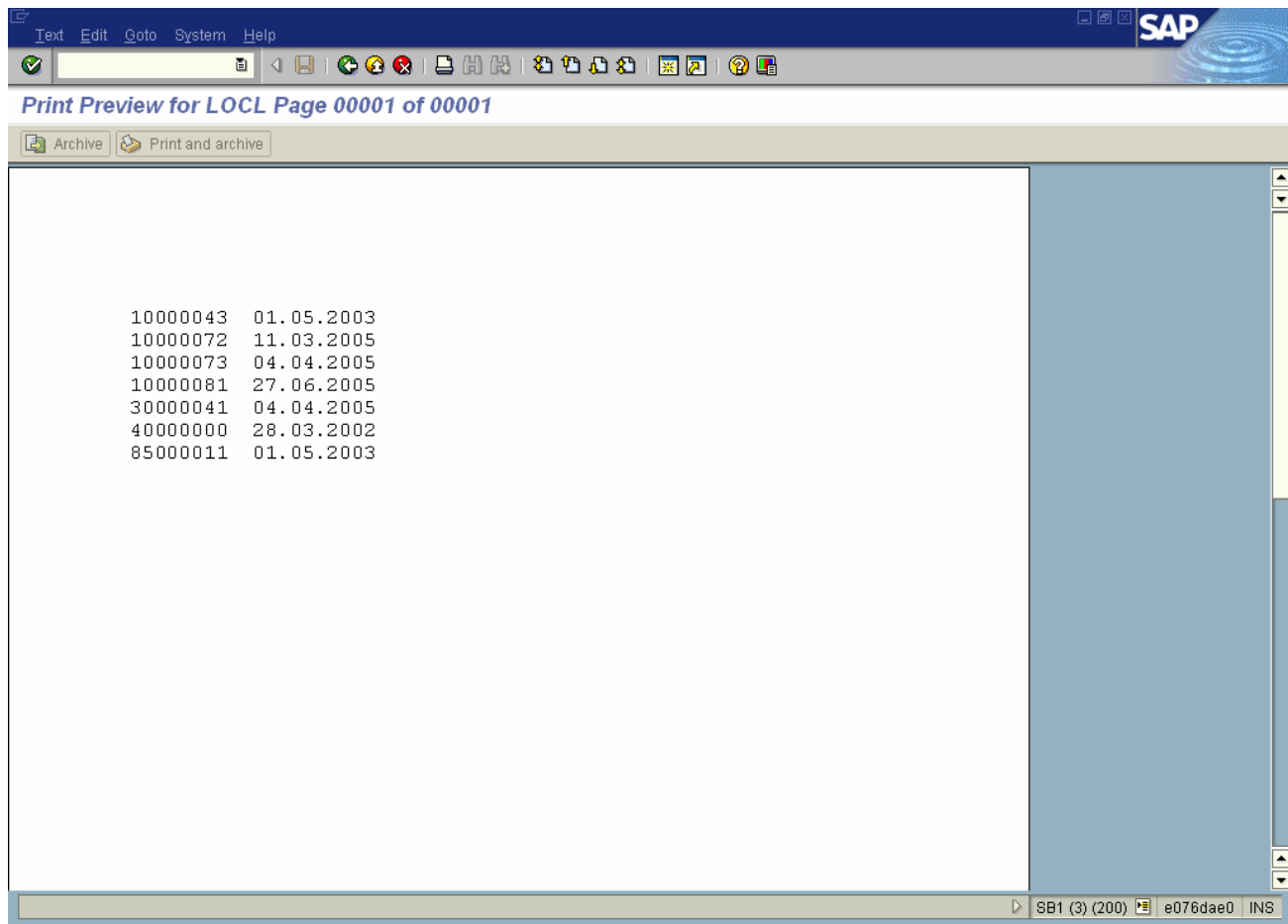
No cover page

Recipient:

Department:

Print Print preview

Give LOCL for OutputDevice and Click Print preview.



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## Author Bio

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