



Training on SAP-ABAP (Batch -2)

Overview of SAP



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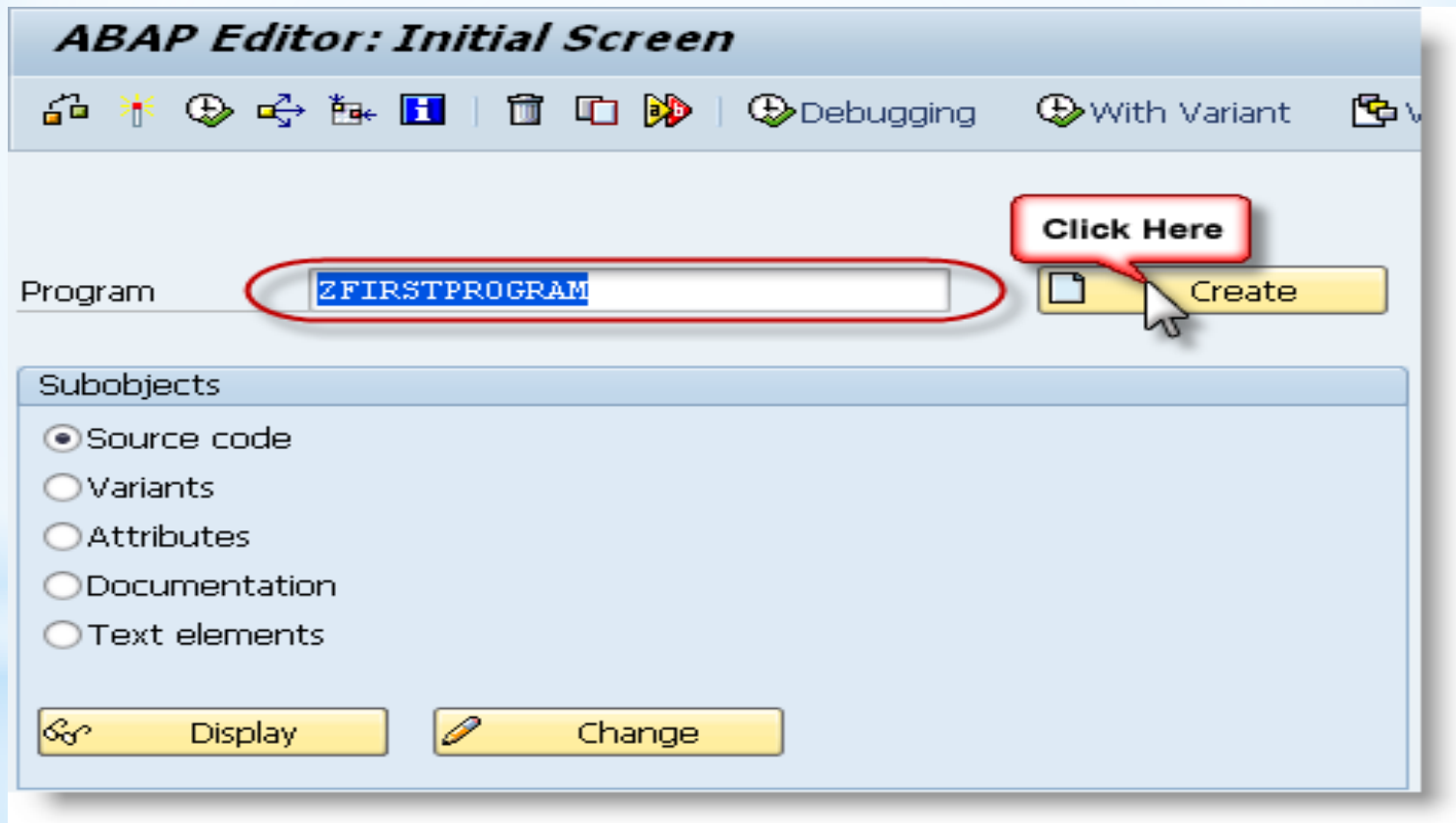
AGENDA

- Program in ABAP
- Q&A Session

SAP Transaction code is a short cut key attached to a screen. Instead of using SAP easy access menu we can also navigate to a particular screen in SAP by entering the transaction code (T-code for short) in the command field of the standard toolbar.



Double click on “ABAP Editor” to open the editor. ABAP editor can also be opened by entering t-code **SE38** in the command field.



This is the ABAP editor's initial screen. Enter the name of the program you want to create and press create. All the customer programs must begin with “Y” or “Z”.

The screenshot displays the 'ABAP: Program Attributes ZFIRSTPROGRAM Change' window. The 'Title' field contains 'This is my first program' and is circled in red. Below it, 'Original language' is set to 'EN' (English). The 'Created' date is '02.01.2011'. The 'Status' is 'New(Revised)'. The 'Attributes' section includes a 'Type' dropdown set to 'Executable program' (circled in red), a 'Status' dropdown, an 'Application' dropdown, an 'Authorization Group' field, a 'Logical database' field, and a 'Selection screen' checkbox. At the bottom, there are checkboxes for 'Editor lock' (unchecked), 'Unicode checks active' (checked), 'Fixed point arithmetic' (checked), and 'Start using variant' (unchecked). A red callout box with the text 'Click Here' points to the 'Save' button in the bottom right corner, which is part of a toolbar containing several icons.

Title	This is my first program		
Original language	EN	English	
Created	02.01.2011		
Last changed by			
Status	New(Revised)		
Attributes			
Type	Executable program		
Status			
Application			
Authorization Group			
Logical database			
Selection screen	<input type="checkbox"/>		
<input type="checkbox"/> Editor lock	<input checked="" type="checkbox"/> Fixed point arithmetic		
<input checked="" type="checkbox"/> Unicode checks active	<input type="checkbox"/> Start using variant		

Click Here

Save

In the next popup screen(Program attributes) enter the title for your program, select **Executable program** as type and press save.

Create Object Directory Entry

Object R3TR PROG ZFIRSTPROGRAM

Attributes

Package

Person Responsible

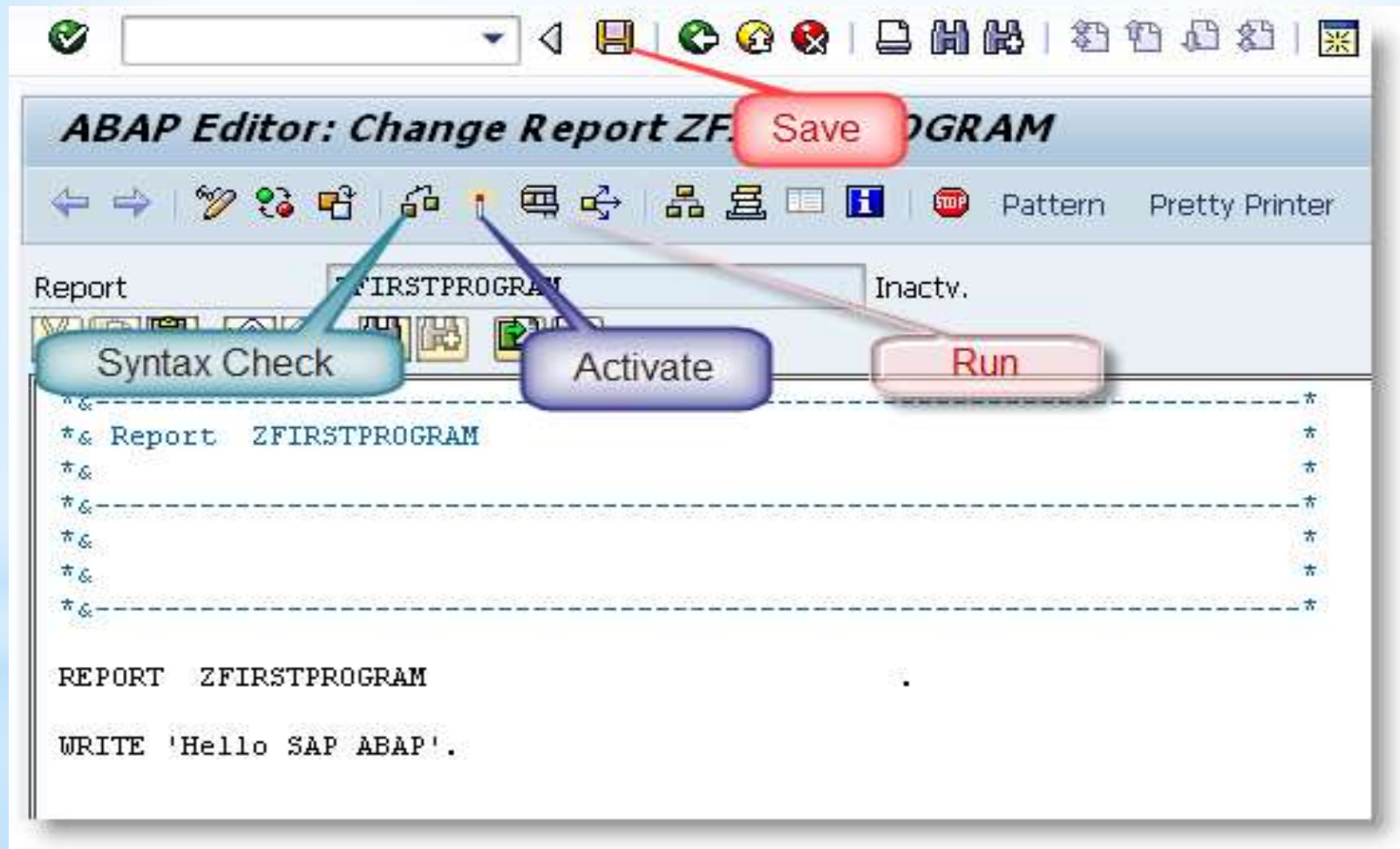
Original System

Original language EN English

Click Here

Local Object Lock Overview

This is the screen where you can write the ABAP code.



Write the code. Press save, then syntax check(Ctrl + F2
)

The screenshot shows the SAP ABAP editor interface. At the top, the title bar reads "Report ZFIRSTPROGRAM Inactive (revised)". Below the title bar is a toolbar with icons for Cut, Copy, Paste, Undo, Redo, Find, and Save. The main text area contains the following code:

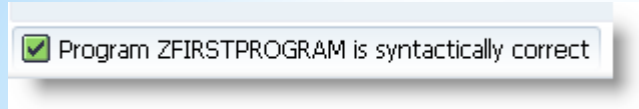
```
*-----*  
* Report  ZFIRSTPROGRAM *  
*-----*  
*  
*  
*-----*  
  
REPORT  ZFIRSTPROGRAM .  
  
WRITE 'Hello SAP ABAP'
```

Below the code area is a status bar with a "*" icon. At the bottom, there is a "Syntax error" message box. It contains a table with the following data:

Description	Row	Type
Program ZFIRSTPROGRAM	11	

Below the table, the message reads: "The last statement is not complete (period missing)."

If there are any syntax errors, it will be displayed at the bottom of the screen as shown above. Correct the errors and again check the syntax.

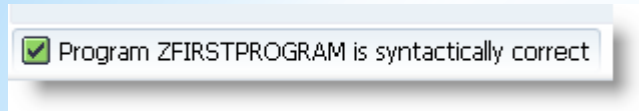


Successful syntax check message will be displayed in the status bar. Then activate (Ctrl + F3) the program.

In the following screen select your program and press continue. Then run (F8) the program.



If there are any syntax errors, it will be displayed at the bottom of the screen as shown above. Correct the errors and again check the syntax.



Successful syntax check message will be displayed in the status bar. Then activate(Ctrl + F3) the program.

In the following screen select your program and press continue. Then run(F8) the program.



ABAP system variables is accessible from all ABAP programs. **These fields are filled by the runtime environment.** The values in these fields indicate the state of the system at any given point of time.

The complete list of ABAP system variables is found in the **SYST** table in SAP.

Individual fields of the SYST structure can be accessed either using “**SYST-**” or “**SY-**”.

```
WRITE:/ 'ABAP System Variables'.
```

```
WRITE:/ 'Client : ', sy-mandt.
```

```
WRITE:/ 'User : ', sy-uname.
```

```
WRITE:/ 'Date : ', sy-datum.
```

```
WRITE:/ 'Time : ', sy-uzeit.
```

Variables are named data objects used to store values within the allotted memory area of a program. Each variable in ABAP has a specific type, which determines the size and layout of the variable's memory; the range of values that can be stored within that memory; and the set of operations that can be applied to the variable.

```
DATA <f> TYPE <type> VALUE <val>.
```

Ex.

```
DATA d1(2) TYPE C.
```

```
DATA d2 LIKE d1.
```

```
DATA minimum_value TYPE I VALUE 10.
```

The 'PARAMETERS' statement can be used to declare the elementary data objects that are linked to input fields on a selection screen.

