Printing Labels in Landscape format using SMARTFORMS

Applies to:

This Article is intended for all those ABAPers who are interested in Printing Landscape Labels using SMARTFORMS and use them in ABAP. For more information, visit the ABAP homepage.

Summary:

This article will show how to print Labels in Landscape format and use them in sap ABAP.

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Deepak Nagar works for Infosys Technologies Limited on ABAP module of SAP. Creation of Sets in SAP-ABAP, How to Read them INI SAP-ABAP Reports SAP COMMUNITY NETWORK SDN - sdn.sap.com | BPX - bpx.sap.com | BOC - boc.sap.com | UAC - uac.sap.com © 2010 SAP AG 2.
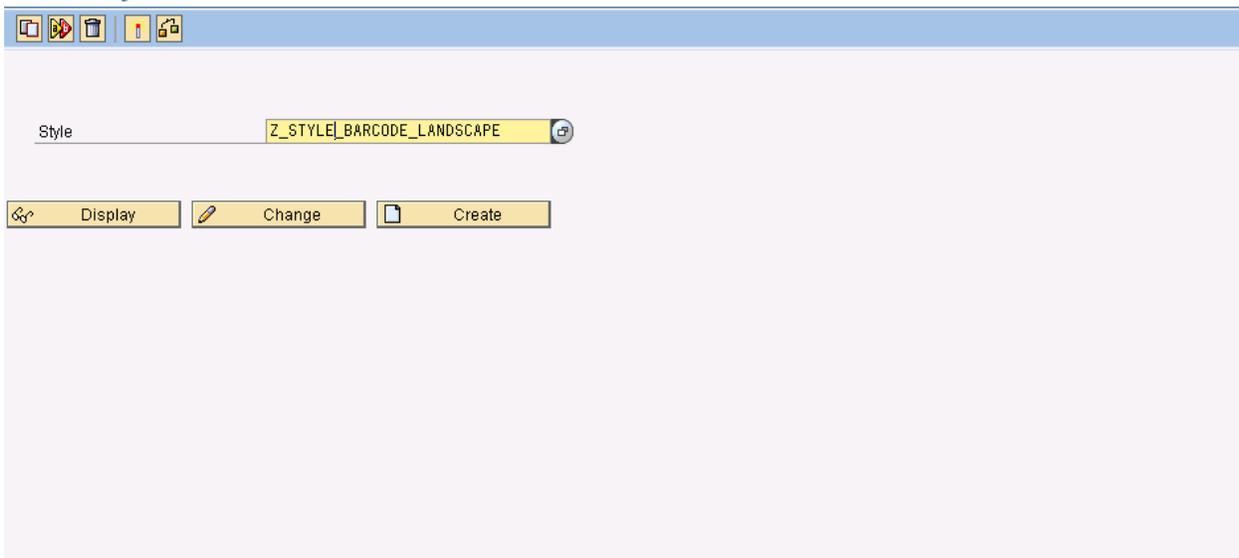
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Overview:

In this article I am trying to explain the process by which we can print Labels in landscape format. To print Labels in Landscape format we will rotate the texts in SMARTFORM output by 90 degrees. Thus, getting output in Landscape format. We need to have a Rotated Barcode in this case as the Barcodes are not rotated using the Commands used in Smartforms.

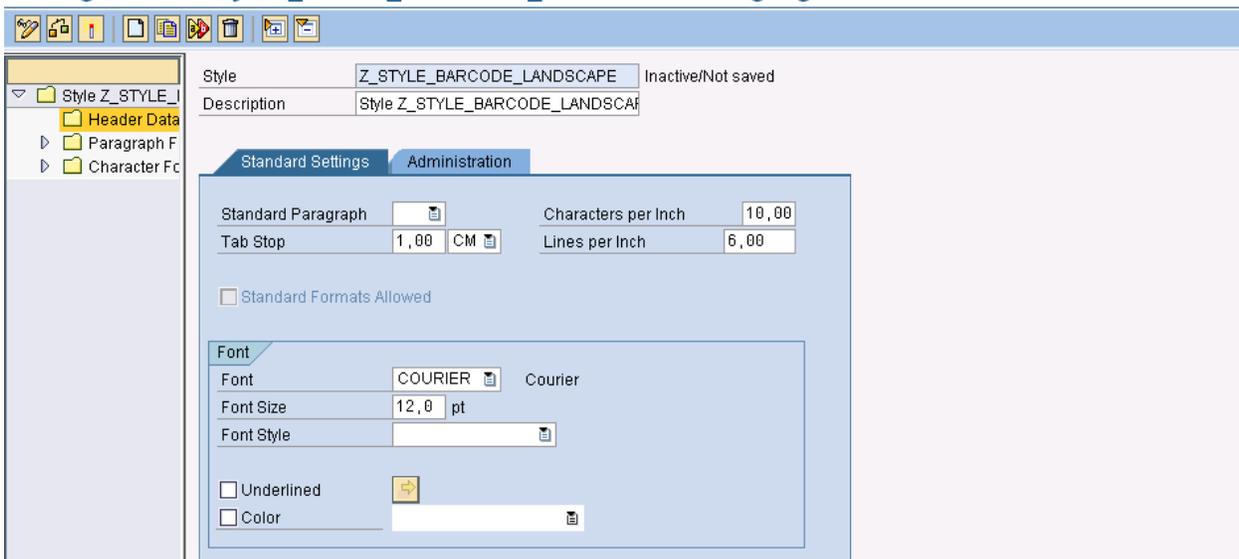## Steps of Creation:

Creating the Style:

Go to transaction' SMARTSTYLES'.
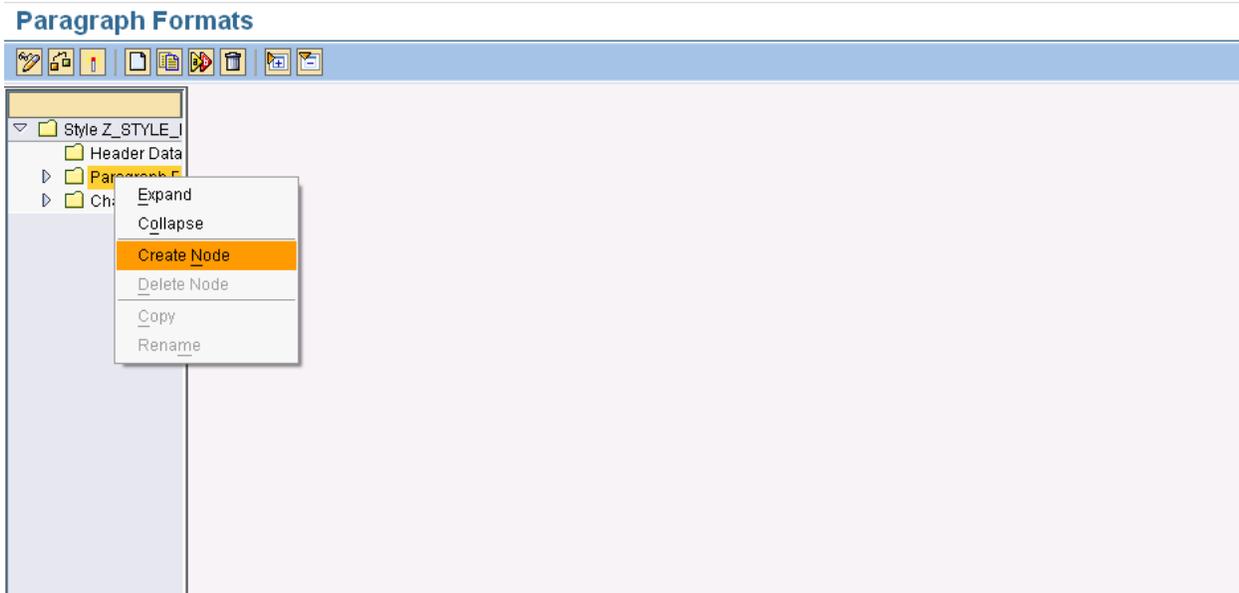
Smart Styles: Initial Screen

Style	Z_STYLE_BARCODE_LANDSCAPE

Display	Change	Create

Enter the name of the Style and press 'CREATE'.

Change Mode : Style Z_STYLE_BARCODE_LANDSCAPE Language EN

Style	Z_STYLE_BARCODE_LANDSCAPE	Inactive/Not saved
Description	Style Z_STYLE_BARCODE_LANDSCAP	

- Style Z_STYLE_l
  - Header Data
  - Paragraph F
  - Character Fc

Standard Settings | **Administration**

Standard Paragraph		Characters per Inch	10,00
Tab Stop	1,00 CM	Lines per Inch	6,00

☐ Standard Formats Allowed

Font

Font	COURIER	Courier
Font Size	12,0 pt	
Font Style		

☐ Underlined
☐ Color

Create a Paragraph format.
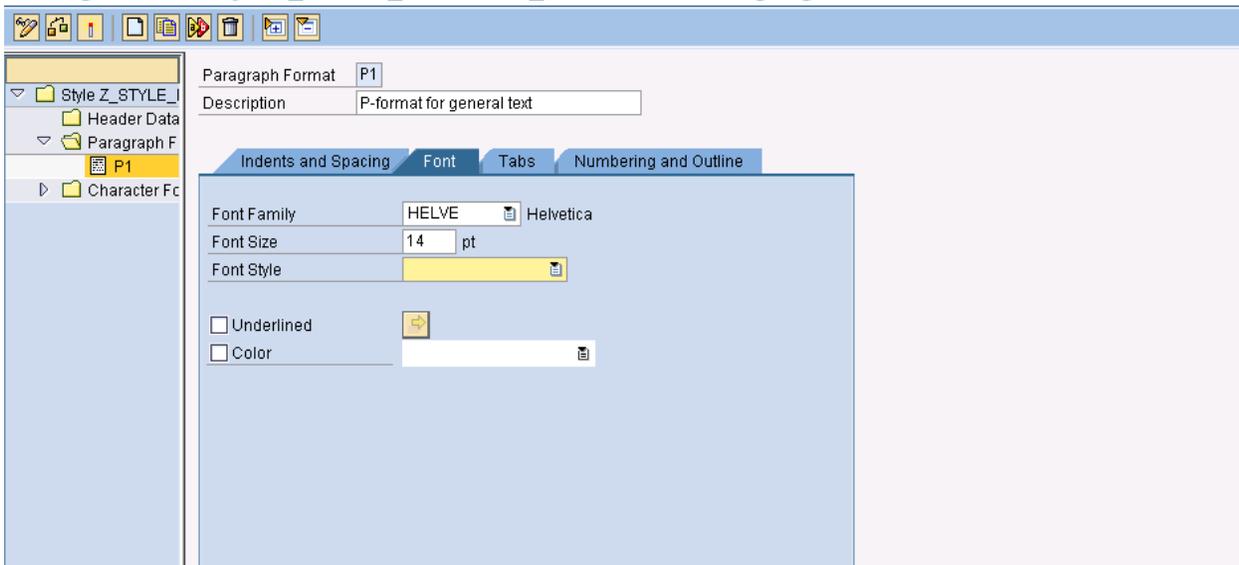
Paragraph Formats

Name the Paragraph format, give a brief description and assign the required characteristics.

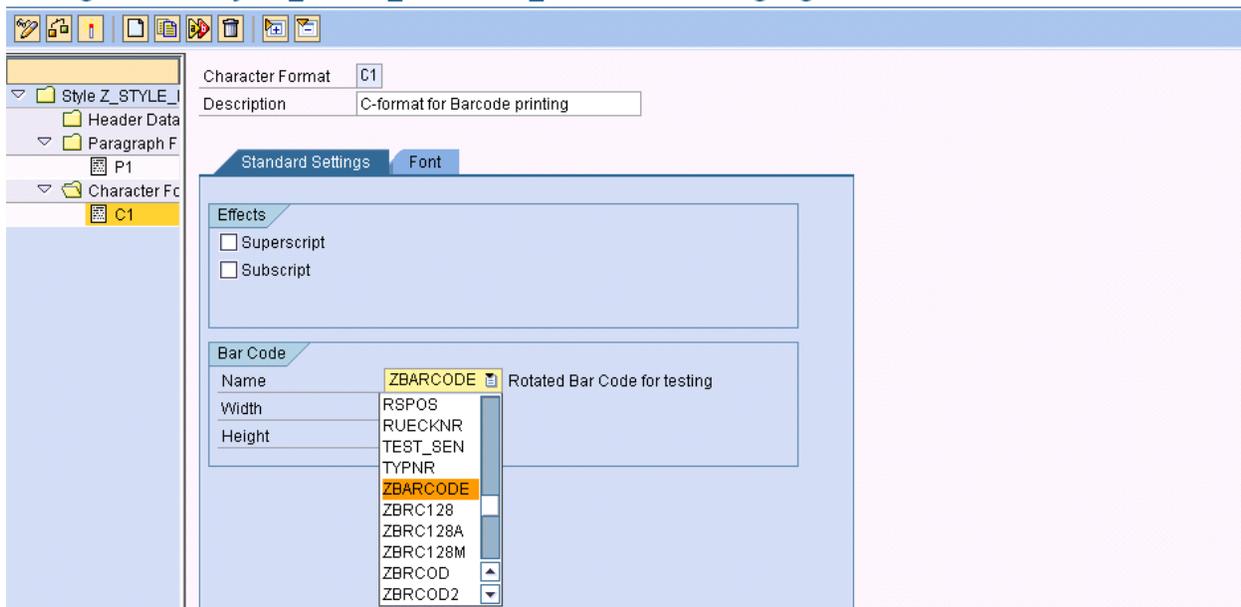In a similar manner create a Character Format.

Character Formats

Name the Character format and give a brief description. Now as shown in the below screen-shot, select the required Bar Code (Rotated) from the dropdown menu.
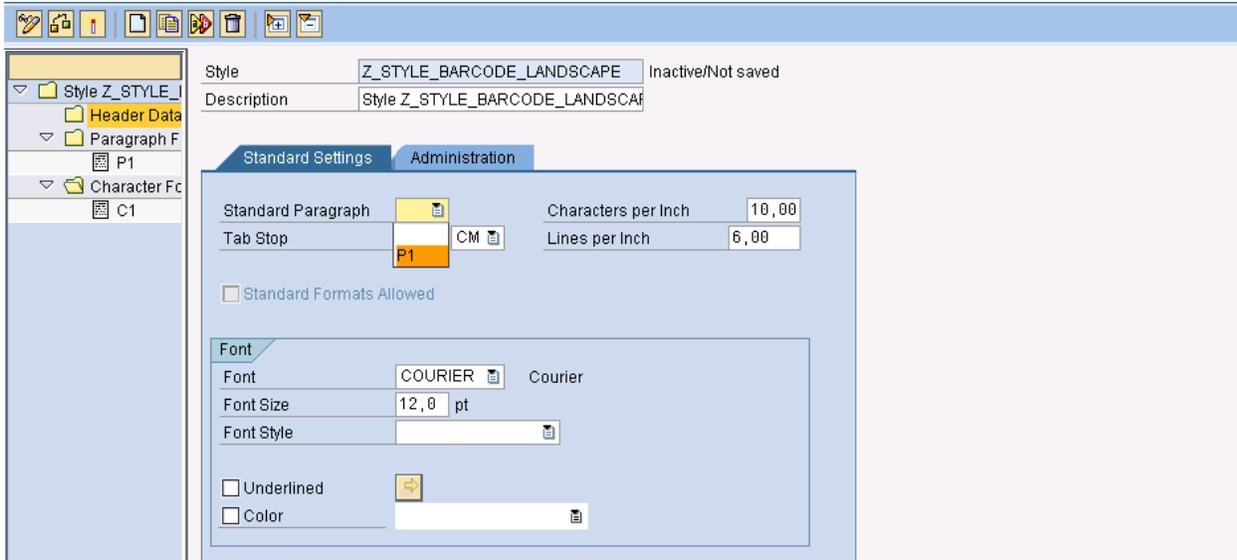
The description of the Barcode is also displayed alongside.

Change Mode : Style Z_STYLE_BARCODE_LANDSCAPE Language EN

In the Header data of the Style, specify the Standard Paragraph format from the drop-down menu.

Change Mode : Style Z_STYLE_BARCODE_LANDSCAPE Language EN
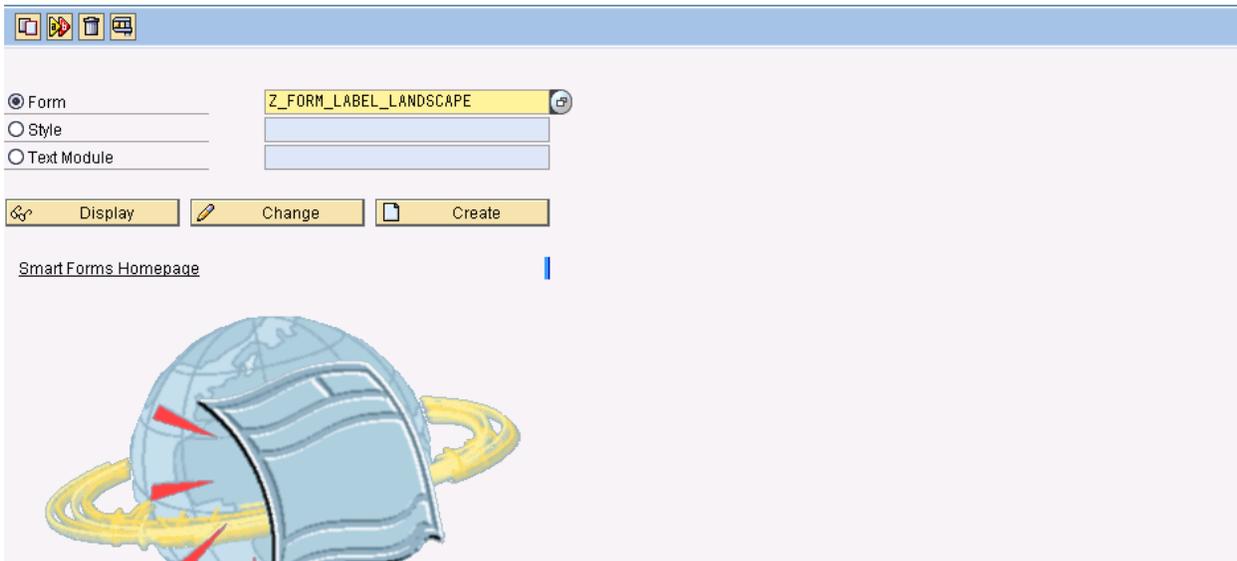

Now save and activate the SMARSTYLE.

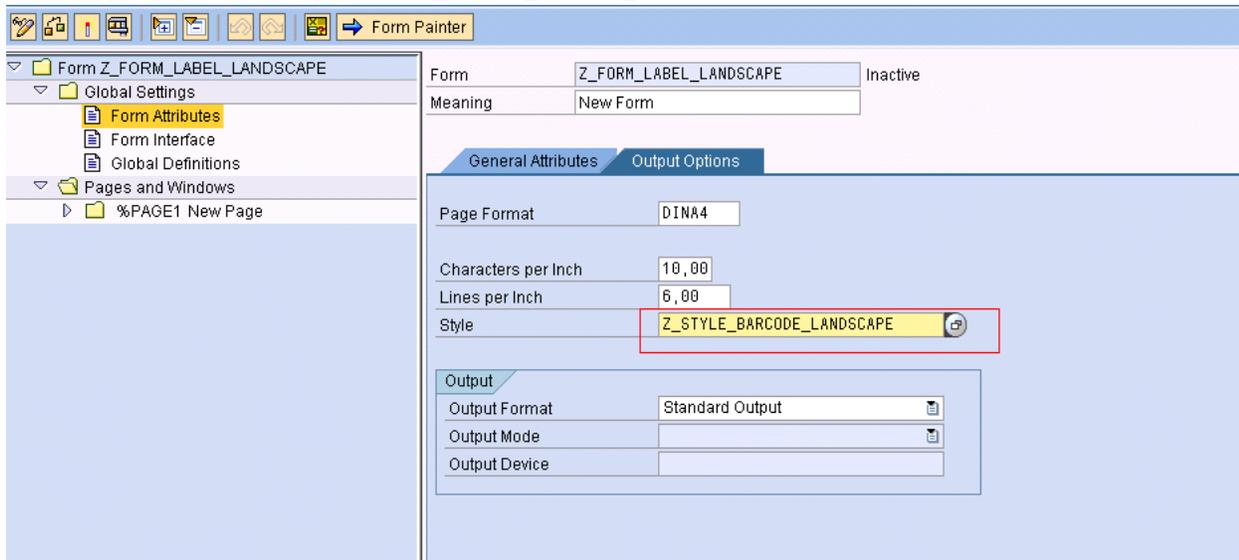## Creating the SMARTFORM:

Go to transaction 'SMARTFORMS'.

Mention the SMARTFORM name and press CREATE.

Use the SmartStyle created above in the Output Options- Style field as shown below.

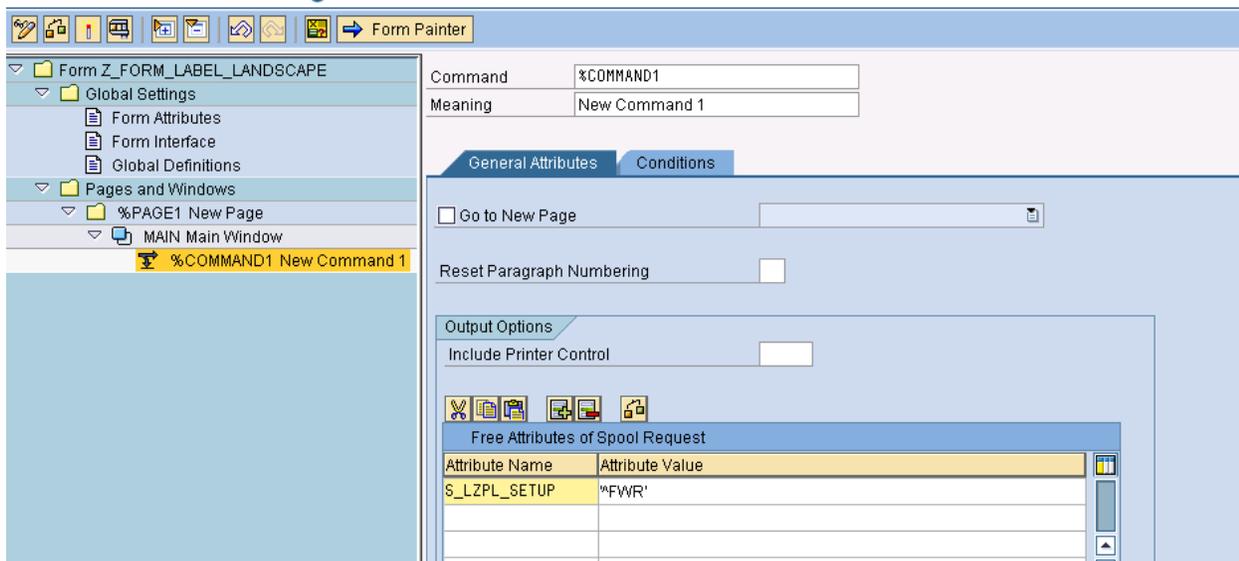**SAP Form Builder: Change Form Z_FORM_LABEL_LANDSCAPE**

Form Z_FORM_LABEL_LANDSCAPE
  Global Settings
    Form Attributes
    Form Interface
    Global Definitions
  Pages and Windows
    %PAGE1 New Page

| Form | Z_FORM_LABEL_LANDSCAPE | Inactive |
| Meaning | New Form | |

General Attributes   Output Options

Page Format	DINA4
Characters per Inch	10,00
Lines per Inch	6,00
Style	Z_STYLE_BARCODE_LANDSCAPE

Output
Output Format	Standard Output
Output Mode	
Output Device	

In the Main Window create a command field and write the command as shown below:

Attribute Name: S_LZPL_SETUP

Attribute Value: '^FWR'

SAP Form Builder: Change Command %COMMAND1

Form Z_FORM_LABEL_LANDSCAPE
  Global Settings
    Form Attributes
    Form Interface
    Global Definitions
  Pages and Windows
    %PAGE1 New Page
      MAIN Main Window
        %COMMAND1 New Command 1

| Command | %COMMAND1 |
| Meaning | New Command 1 |

General Attributes   Conditions

☐ Go to New Page

Reset Paragraph Numbering

Output Options
Include Printer Control

Free Attributes of Spool Request
Attribute Name	Attribute Value
S_LZPL_SETUP	'^FWR'

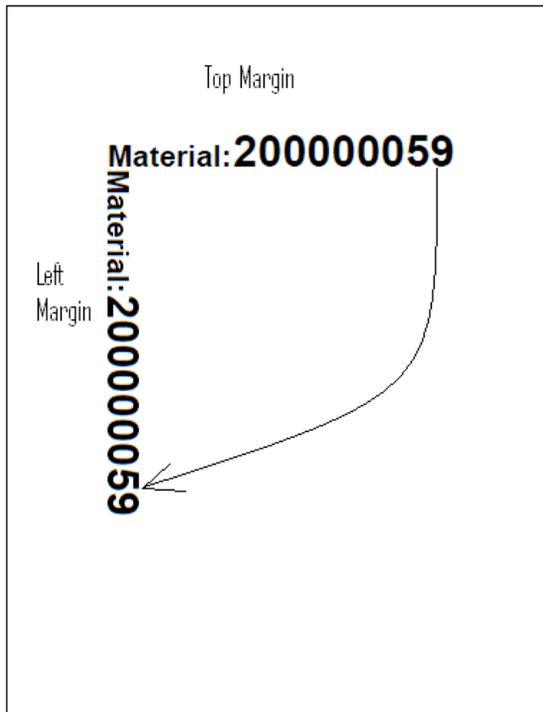This command is responsible for rotation of the text on the Label.

When we will print the text on the label Horizontally, this command will rotate the text by 90 degrees on its axis clockwise.

NOTE: Barcodes are not rotated by this command. For this reason we will use 'Rotated Barcodes'.

An important thing to notice is that when Label is rotated, the Left Margin and the Top Margin changes Top Margin and Left Margin of the output respectively.

The position of text after rotation should be estimated beforehand (exact layout can be achieved after a few attempts). Check out the figure given below.
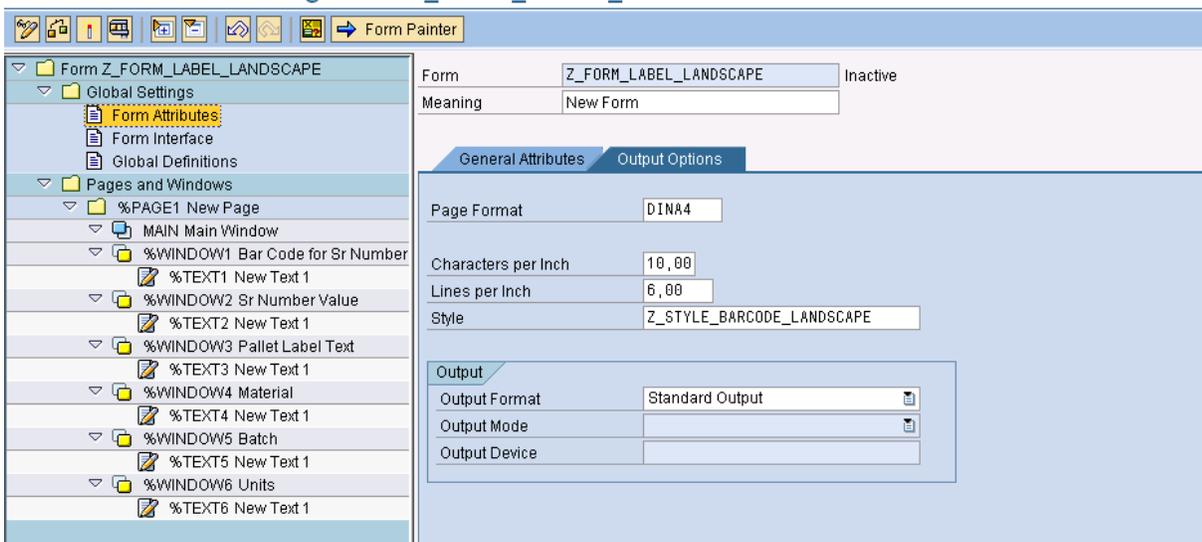
The Actual Top Margin becomes output's Left Margin and the Actual Left Margin becomes output's inverse Top Margin (more the left margin, lesser is the top margin in the output and vice-versa).

Top Margin

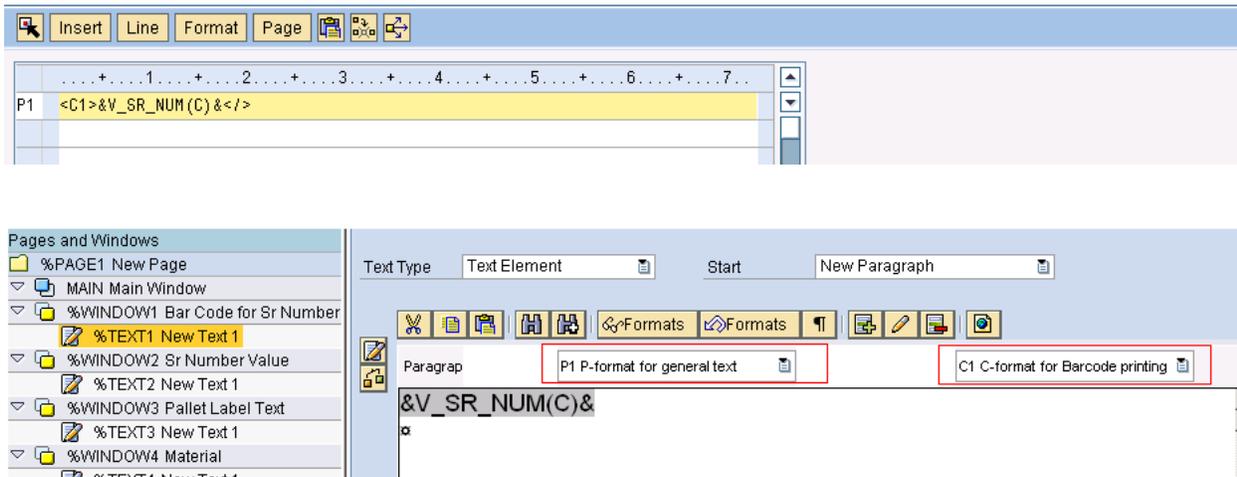Material:**200000059**

Left
Margin

Material:**200000059**

Moving a window UP in portrait = moves LEFT landscape.
Moving RIGHT portrait = moves UP landscape
Moving DOWN portrait = moves RIGHT landscape
Moving LEFT portrait = moves DOWN landscape

We cannot have two texts in the same window with different left margins to be positioned correctly in separate rows in the output after rotation. Thus, to achieve this we will have to create multiple windows overlapping each other. These overlapping windows will have text in the same row but with different left margins, which on rotation will result in different top margins. Hence creating different rows in the output.

SAP Form Builder: Change Form Z_FORM_LABEL_LANDSCAPE

Form Z_FORM_LABEL_LANDSCAPE
- Global Settings
  - Form Attributes
  - Form Interface
  - Global Definitions
- Pages and Windows
  - %PAGE1 New Page
    - MAIN Main Window
    - %WINDOW1 Bar Code for Sr Number
      - %TEXT1 New Text 1
    - %WINDOW2 Sr Number Value
      - %TEXT2 New Text 1
    - %WINDOW3 Pallet Label Text
      - %TEXT3 New Text 1
    - %WINDOW4 Material
      - %TEXT4 New Text 1
    - %WINDOW5 Batch
      - %TEXT5 New Text 1
    - %WINDOW6 Units
      - %TEXT6 New Text 1

Form: Z_FORM_LABEL_LANDSCAPE Inactive
Meaning: New Form

General Attributes | Output Options

Page Format: DINA4
Characters per Inch: 10,00
Lines per Inch: 6,00
Style: Z_STYLE_BARCODE_LANDSCAPE

Output
Output Format: Standard Output
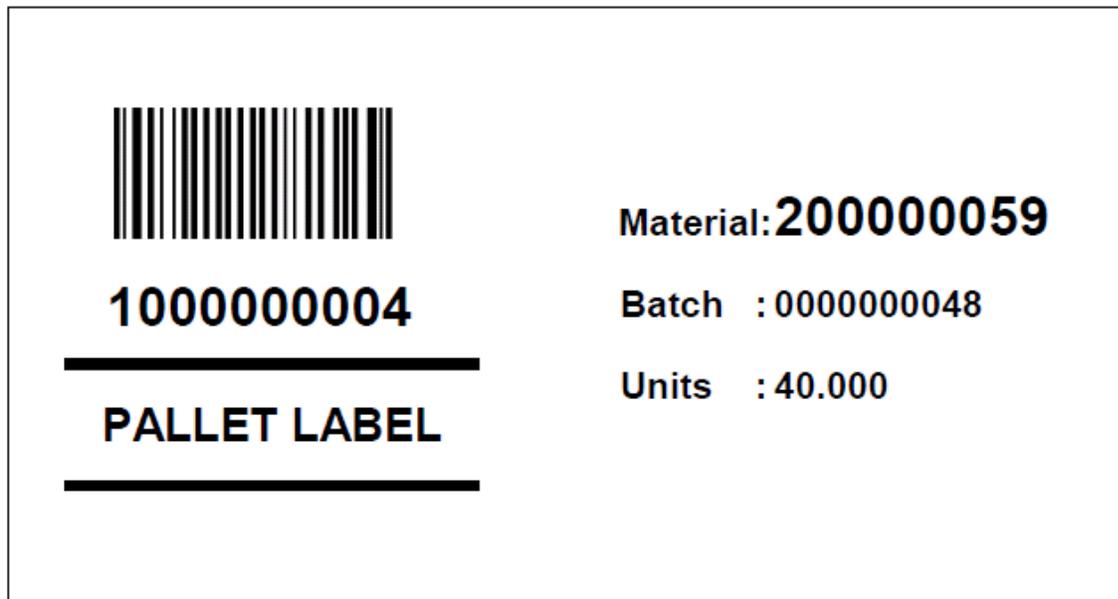Output Mode:
Output Device:

After creating the required layout and placing the texts at the correct positions, we can use the Rotated Bar Code. The field for which we need the Bar Code in the Label should be printed using the Character format 'C1' as shown below:

Output Label:

Getting the fields at the required positions will result in the output as shown below:

Related Content

For more information, visit the ABAP homepage

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