**Types of programs:**

No standard page heading ---

Variables

Variable is a location in memory for storing data.

1) Program ---- stock

2) program ---- sales details

* complex data types --- structures --- internal tables--linked list
* To declare a variable in ABAP use the keyword DATA
* DATA is the keyword for declaring a variable in ABAP.

**String functions**

1) Concatenate

Concatenate joins one or more strings.

2) Translate

3) Replace

4) Condense

5) Strlen

A1 ---- Welcome to

B1 ---- ABAP Programming

C1 ---- A1 & B1.

\*\* data is the keyword for declaring a variable in ABAP.

\*\* a variable is a location in memory for storing data.

\*\* String functions

\*\* syntax:<var\_name> type <datatype> value ''.

DATA: a1 TYPE string VALUE 'Welcome to',

b1 TYPE string VALUE 'ABAP Programming',

c1 TYPE string.

**\*\* Concatenate joins one or more strings.**

CONCATENATE a1 b1 INTO c1.

WRITE:/ 'The Concatenated String is',c1 COLOR 5

**\*\* concatenate with a separator**

CONCATENATE a1 b1 INTO c1 SEPARATED BY space.

WRITE:/ 'The Concatenated String is',c1 COLOR 5.

**\*\* Concatenate with a delimiter---$#@!**

CONCATENATE a1 b1 INTO c1 SEPARATED BY '@'.

WRITE:/ 'The Concatenated String is',c1 COLOR 5.

**\*\* Translate translates the text to upper and lower cases.**

**\*\* to upper case.**

TRANSLATE c1 TO UPPER CASE.

WRITE:/ 'The Translated String is:',c1 COLOR 3.

TRANSLATE c1 TO LOWER CASE.

SKIP.

WRITE:/ 'The Translated String is:',c1 COLOR 3.

Syntax:

Replace 'o' in <var> with '$'.

Replace 'o' in C1 with '$'.

Skip 1.

Write:/ 'The Replaced String is:',C1 color 6.

**replace all occurrences of**

Replace all OCCURRENCES OF 'o' in C1 with '$'.

Write:/ 'The Replaced String is:',C1 color 6.

Data:D1 type String Value 'HellO World'.

Replace all OCCURRENCES OF 'o' in D1 with '#' IGNORING CASE.

Write:/ 'The Replaced String ignoring case is:',D1 color 6.

**\*\* Condense is the function that removes the leading spaces in the string.**

Data:C2 type String Value 'ABAP is a Programming Language'.

Condense C2.

Skip.

Write:/ 'The Condensed String is:',C2 colour 7.

Condense C2 NO-GAPS.

Write:/ 'The Condensed String is:',C2 colour 7.

**\*\* 5) Strle is used to find the length of the string.**

Data: N1 type I. "Integer - I -- int

N1 = Strle(C2 ).

Skip.

Write:/ 'The Length of the string is:', N1 colour 4.

**Radio buttons:**

* Radio buttons are option for selection where only one will be active at a time.
* all the radio buttons must be existing in a single radio button group.
* Parameters is the keyword used for creating radio buttons in ABAP.

**Syntax:**

Parameters:<parm\_name> type radio button group <grp\_name>.

* REPORT ZAFBTCH\_RADIOBUTTONS.
* Radio buttons are option for selection where only one will be active at a time.
* all the radio buttons must be existing in a single radio button group.
* Parameters is the keyword used for creating radio buttons in ABAP.

Parameters: First RADIOBUTTON GROUP AB1,

Second RADIOBUTTON GROUP AB1,

Third RADIOBUTTON GROUP AB1,

Fourth RADIOBUTTON GROUP AB1,

Fifth RADIOBUTTON GROUP AB1.

**Code when a radio button is executed.**

If First = 'X'."first radio button is selected.

Write:/ 'First Option is Selected'.

elseif Second = 'X'.

Write:/ 'Second option is Selected'.

elseif Third = 'X'.

Write:/ 'Third radio button is Selected'.

elseif Fourth = 'X'.

Write:/ 'Fourth radio button is Selected'.

else.

Write:/ 'Fifth radio button is Selected'.

endif.