



Read Row

next id:

line:

3.1415 00fwRe!dW

result:

id:	0
kind:	UNK_VAL
data.int_val:	
data.dbl_val:	-1378
data.txt_val:	

Instruction:

Main

i:

db_data[]:

id:	7139
kind:	UNK_VAL
data.int_val:	
data.dbl_val:	10723
data.txt_val:	
id:	-91823
kind:	UNK_VAL
data.int_val:	
data.dbl_val:	36126
data.txt_val:	
id:	0
kind:	UNK_VAL
data.int_val:	
data.dbl_val:	-73
data.txt_val:	

Instruction:

Function: Read Row

Returns: Row - a Row with data read from the user

Parameters:

1: next id (Integer) - the id of the row to be read

Local Variables:

*: line (String - 16 characters) - the text read from the user

Steps:

- 1: Set result's id to next id
- 2: Output 'Enter value: ' to the Terminal
- 3: Read text entered by user into line
- 4: If line is an integer
- 5: set result's data's Int Val to the integer value in line
- 6: set result's kind to INT_VAL
- 7: Else If line is a double
- 8: set result's data's Dbl Val to the double value in line
- 9: set result's kind to DBL_VAL
- 10: Else
- 11: set result's data's Txt Val to the text in line
- 12: set result's kind to TXT_VAL
- 13: Output "Stored in row with id ", and result's id
- 14: Return the result

Procedure: Main

Local Variables:

*: db_data (array containing 3 Row values)

*: i (Integer) -

Steps:

- 1: for i loops over each element in db_data
- 2: set db_data[i] to result of calling Read Row(i)
- 3: ...

The value entered is stored in the line string.

Step 3 reads in the value entered by the user

At Step 7 the code detects that the value in line is a double, so code will proceed to Step 8

