Lazarus Cheatsheet



Introduction

Disclaimer, License, informations about this file

Variables

types of variables, define variables, use variables

DIV and **MOD**

how to use the **DIV** and **MOD** functions

Buttons

button interaction, change cursor on hover

IF and THEN

how to use **IF** and **THEN**, when to use **begin** and **end**

TEdit

grab content of TEdit, display results in TEdit

Version 1.2.0 ©2023 Felix Wittwer

Introduction

Disclaimer

This is no official Lazarus/ Free Pascal documentation.

I'm not responsible for the linked websites and therefore give NO warranty for using these.

License

GNU General Public License v3.0

Copyright (C) 2023 Felix Wittwer

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see https://www.gnu.org/licenses/.

Variables

types of variables

name	Lazarus data_type	range	content	example
Integer	integer	-2.147.483.648 to 2.147.483.647	whole numbers	int1 := 10;
Float	real	1.5E-45 to 3.4E38	decimal numbers	Float1 := 1.23;
Double	double	5.0E-324 to 1.7E308	scientific numbers	Double1 := 1.23456;
String	string	text	text	String1 := 'Test';
Char	char	single symbol	single symbol	Char1 := 'c';
Boolean	boolean	True, False	True, False	Bool1 := True;

More datatypes can be found at https://wiki.lazarus.freepascal.org/Data_type.

define variables

Variables can be definded in general by:

```
var
  name_of_variable:data_type;

//a more specific example:

var
  Int1, Int2, Int3:integer;
  float1, float2, float3:real;
  string1, string2 :string;
```

If you dont know which datatype to use look at types of variables.

use variables

```
assign values:
name_of_variable:=value;
//a more specific example:
Int1:= 1234;
Float1:= 12.3456;
```

Buttons

button interaction

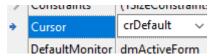
```
procedure Tform.Button1Click(Sender: TObject);
begin

//commands executed by clicking on button
end;
```

change cursor on hover

Go to properties tab on the left side.

Search for Cursor property. Select the cursor you want.



TEdit

grab content of TEdit

Use strtoint() or strtofloat() to convert the string of a TEdit to an integer or a float.

```
name_of_variable:=strtoint(edit1.text); // convert string of Edit1 to int
name_of_variable:=strtofloat(edit1.text); // convert string of Edit1 to float
```

display results in TEdit

Use inttostr() or floattostr() to convert the string of a TEdit to an integer or a float.

```
Edit1.Text:=inttostr(name_of_variable);
// convert int to string and insert it into Edit1

Edit1.Text:=floattostr(name_of_variable);
// convert float to string and insert it into Edit1

Edit1.Text:=floattostrF(d, ffFixed, 10,2);
// convert float to string and display exactly two decimal points
```

DIV and MOD

How to use DIV

Use DIV to divide two numbers with each other.

```
result:=number1 DIV number2;
// divide number1 by number2
```

result:=9 DIV 4;

// reslut would be 2 because you can divide 9 by 4 and get 2 with decimal points // DIV only outputs whole numers (int)

How to use MOD

MOD is kind of the opposite of DIV.

result:=number1 MOD number2;

// divide number1 by number2 and multiply with number 2 and subtract the result from number1

// MOD gives you the part of the number that is left

Usind the example from DIV that means:

result:=9 MOD 4;

// result would be 1 because 9/4 is 2 and 2*4=8 and 9-8 is 1

IF and THEN



©2023 Felix Wittwer https://github.com/felixwittwer