Lazarus Cheatsheet



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Introduction

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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

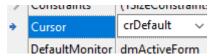
```
procedure Tform.Button1Click(Sender: TObject);
begin

//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 return remainder
// MOD gives you the reminder
```

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
```

More detailed Information can be found at https://wiki.freepascal.org/Mod.

IF and THEN



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