



Delphi

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Delphi Chapter 3:

Built in Delphi Functions/Procedure:

Within Delphi there are built in functions and procedures that can be called to process data in a certain way. These include simple functions such as Copy, Uppercase or Length and procedures like delete or insert.

Functions:

Are used in an executable statement usually with one or more parameters.

E.G:

Strtoint: Num1 := strtoint(edtnum.text)

Strtoint: *this will convert data of type string into an integer value*

Procedure:

Are used in a statement on its own (with one or more parameters).

Str: str(long, longs)

Str: *Converts the number into a string (compare to inttostr/floattostr) – and allows field formatting of the real number.*

Functions List:

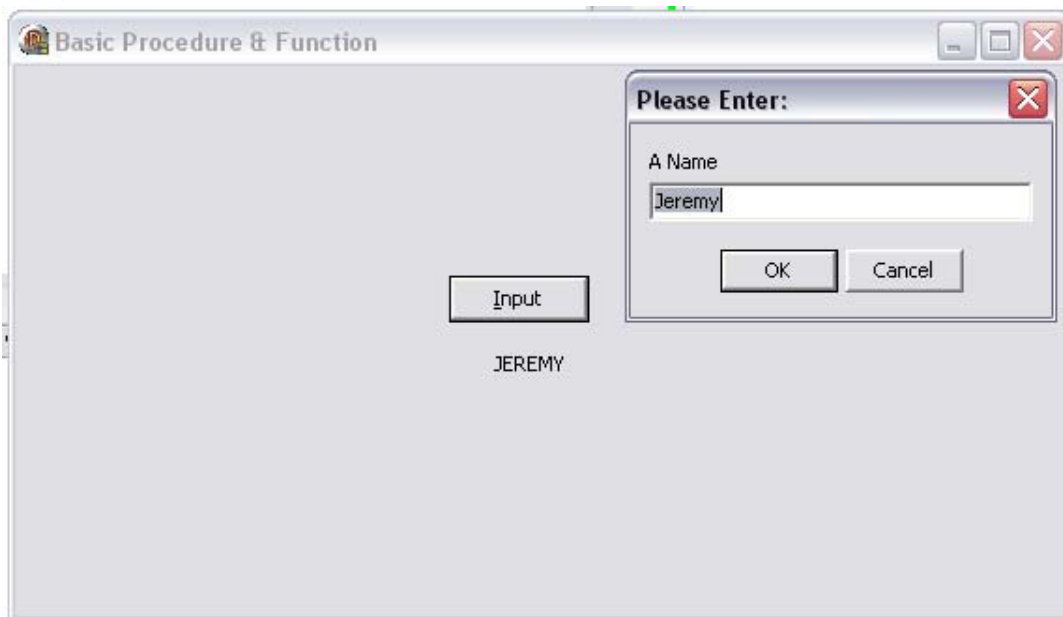
Function:	Means:	Example:
strtoint	Changes string value to integer value	Example:= strtoint(input)
inttostr	Changes integer value to string value	output.caption:= inttostr(example)
strtofloat	Changes string value to real value	Example:= strtofloat(input)
floattostr	Changes real value to string value	output.caption:= floattostr(example)
Uppcase	Changes the character into a capital letter	Example:= upcase(input[1]) (where Example is type char)
Uppercase	Changes all the characters in a string into capital letters	Example:= uppercase(input) (where Example is type string)
Lowercase	Changes all the characters in a string into lowercase letters	Example:= Lowercase(input) (where Example is type char)
Length	Counts the number of characters in the string	Example:= length(input) (where Example is type integer)
Pos	Finds the position of a substring within a string	Example:= pos('a', input) (where Example is type integer)
Copy	Copies a substring from within a string	Example:= copy(input, from, how) (where Example is type string)
Numeric Functions:		
Round	Rounds off a real number to the nearest integer	
Trunc	Truncates a real number to an integer (ie: chops off the fraction)	
Sqr	Squares the number	
Sqrt	Square roots the number	
Abs	Returns the absolute value of a number	

Function Example, *Uppercase*:

Code:

```
• procedure TForm1.BtnInputClick(Sender: TObject);  
•   Var  
•     Input: string;  
30 begin  
•     Input:= inputbox('Please Enter:', 'A Name', 'Jeremy');  
•     Input:= Uppercase(Input);  
•     LblOutput.Caption:=Input  
•   end;  
•  
• end.  
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```

Program:



Procedures List:

Procedure:	Means:	Example:
Delete	Deletes a portion of a string from a string	EG: Delete(Names, From, How)
Insert	Insert a substring into a string into a certain position	EG: Insert('hello world, example, from)
Str	Converts the number into a string	EG: Str(num, stnum) (Where num = real/integer and stnum = string)
Val	Converts the string into a value with an error check	EG: Val(stnum, num, code)

Where:

- From = start position
- How = How many Characters
- Code = Integer

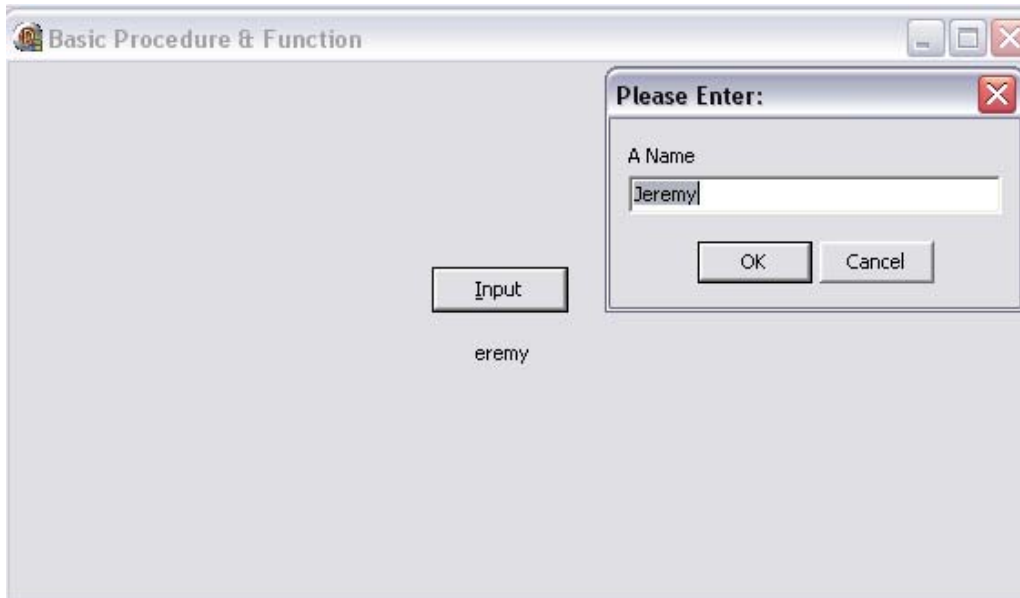
Procedure Example, Delete:**Code:**

```

• procedure TForm1.BtnInputClick(Sender: TObject);
•   Var
•     Input: string;
30  begin
•     Input:= inputbox('Please Enter:', 'A Name', 'Jeremy');
•     Delete(Input, 1, 1);
33  LblOutput.Caption:=Input
•   end;
• end.
•

```

Program:



Delphi Chapter 4:

If Statements:

On the next tutorial we will cover what an If statement is and how to use one, as well as what type of If statement there are. Please download the next tutorial at:

[Click Here!](#)