Example of conversion from basic data types to a Variant type

Example is intended for AtouchX library usage, specifically a method NetPutData of an AtouchApp object in the Delphi development tool.

<u>Recommended data writing procedure</u>

    1. It is necessary to set the "Variant" type as data parameter.

 Var data: Variant;

    2. Writing a value to a "Variant" type variable must be done by casting

Integer(16b):
Var s: smallint;

```
data:= smallint(s);                    {* Conversion to "Variant" *}
```

Long (32b):
Var l: integer;

```
data:= integer(l);                     {* Conversion to "Variant" *}
```

Float:
Var f: single;

```
data:= single(f);                      {* Conversion to "Variant" *}
System.VarCast(data, data, 4);          {* Setting type to Single *}
```

    3. Function NetPutData call up
The type of the variable in the database and the type of the written data must be the same.

```
Res:= ATC.NetPutData(4001, 4001, data);
```

An example of a procedure that writes values of the Integer, Long, and Float type variables

```
procedure TForm1.Button1Click(Sender: TObject); var Res: smallint;
    data: Variant;
    s: smallint;
    l: integer;
    f: single;

begin

 {* int *}
 s:= 10;
 data:= smallint(s);

 Res:= ATC.NetPutData(4001, 4001, data);
 if (Res<> 0) then Application.MessageBox('Request error', 'Application', MB_ICONSTOP + MB_OK);

 {* long *}
 l:= 100;
 data:= integer(l);
 Res:= ATC.NetPutData(4015, 4001, data);
 if (Res<> 0) then Application.MessageBox('Request error', 'Application', MB_ICONSTOP + MB_OK);

 {* float *}
 f:= 10.00001;
 data:= single(f);
 System.VarCast(data, data, 4);

 Res:= ATC.NetPutData(4053, 4001, data);
 if (Res<> 0) then Application.MessageBox('Request error', 'Application', MB_ICONSTOP + MB_OK);

end;
```