lamaLibrary: bitsToByte

The function 8 bits JOIN to a byte.

Function call:

```
"bitsToByte"(bit00:=_bool_in_,
             bit01:=_bool_in_,
             bit02:=_bool_in_,
             bit03:=_bool_in_,
             bit04:=_bool_in_,
             bit05:=_bool_in_,
             bit06:=_bool_in_,
             bit07:=_bool_in_,
             OUT=>_byte_out_);
```

Source code:

```
TITLE = JOIN A BYTE FROM BITS
{ S7_Optimized_Access := 'FALSE' }
AUTHOR : lamaLibrary
FAMILY : TOOLS
VERSION : 0.1
//Build a word, bit-by-bit
   VAR_INPUT
      bit00 : BOOL;   //  Bit 00 of BYTE
      bit01 : BOOL;   //  Bit 01 of BYTE
      bit02 : BOOL;   //  Bit 02 of BYTE
      bit03 : BOOL;   //  Bit 03 of BYTE
      bit04 : BOOL;   //  Bit 04 of BYTE
      bit05 : BOOL;   //  Bit 05 of BYTE
      bit06 : BOOL;   //  Bit 06 of BYTE
      bit07 : BOOL;   //  Bit 07 of BYTE
   END_VAR

   VAR_OUTPUT
      OUT : BYTE;   //  Word constructed from bits
   END_VAR


BEGIN
   // Assemble bits to a byte
   #OUT.%X0 := #bit00;
   #OUT.%X1 := #bit01;
   #OUT.%X2 := #bit02;
   #OUT.%X3 := #bit03;
   #OUT.%X4 := #bit04;
   #OUT.%X5 := #bit05;
   #OUT.%X6 := #bit06;
```

```
    #OUT.%X7 := #bit07;

END_FUNCTION
```

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