## Q.

## How to do floating point calculations with integers?

To gain a result with decimal place when dividing integers, please convert the integer to float first.


Please see the following Macro. D8=5 is the integer value gained from PLC.

```
macro_command main()
unsigned int DB
float float_DB, float_D8_2, temp
GetData(DG, "Mitsmbishi EX3U/EX3G", D, 8, 1) // DG=5 in PIC
float_D8 = D8/10 // float_DQ is equal to 0.0
SetData(float_DQ, wLocal HMMI", LW, 100, 1) //LW100 = 0.0
temp=DB
float_DB_2 = temp / 10 // float_DB+2 is equal to 0.5
SetData(\overline{float_DQ_2, wLocal HMIW', LW, 102, 1) // IN102=0.5}
end macro_command
```

Line 10: Since D8 is an integer, D8/10 is performed as an integer operation and the result is 0 . The result is then written to a float variable, float_D8, therefore float_D8 is 0.0 .

Line 15: Since temp is a float, temp/10 is performed as a float operation and the result is 0.5 .

