ReadMe file for C# example 1 of KMAPI.dll

Purpose:

Demonstrate communication with MC controller with KMAPI.dll in C# .Net

Environment:

1. Windows 10, 64 bit , Visual Studio 2017
2. ControlStudio3
3. MC Version Number = MULTIBUS 0.4.17.5r2-C2 , Date = Nov 22 2018.
4. See “Purpose of Motion API” and “Simple Workflow”:   
   <https://github.com/stx-sas/motionAPI64#purpose-of-motion-api>

# Install and build

1. Install ControlStudio 3, connect to the MC as in their User Manual.
2. Download or clone from above link, Open the testnet.csproj project in Visual studio 2017.
3. Compile and run.

# Operation

1. Setup a working system using ControlStudio 3.
2. In the demo app click “Detect Devices” to view list of available MC.
3. In the IP address set the IP, and click connect. See the “Connected” prompt.
4. Click execute to send the “?ver” command. See MC version.
5. Enter any other MC command, click Execute.
6. Click “Run additional Thread” – a new (almost) identical window will open.  
   The new instance is connected to the same MC.
7. Send any command from any thread, view MC response.

# Note for Programing

1. The code only loads the KMAPI dll and use it as pipe to send MC commands to the MC.
2. All Threads use the same connection to the MC. If needed it is easy to change the code to open new connection in each instance.