Requirements:
- **Arduino IDE** (download from http://www.arduino.cc)
- Arduino Mega 2560
- **PuTTY Terminal** (download from http://putty.org/)
- [Optional] LCD/Keyboard Shield for Arduino

Steps:
0. Unzip the Arduino code to your preferred location.

Upload Arduino Code:

1. Connect Arduino Mega to computer.
2. Start Arduino IDE and select correct Arduino COM PORT under menus: (Tools / Port).
3. Open "**kz80_efex.ino**" and compile it (From menus: Sketch / Verify-Compile).
4. Upload sketch next (From menus: Sketch / Upload).

Plug RetroShield:

5. Disconnect Arduino Mega from computer.
6. Plug RetroShield to Arduino Mega.
7. Ensure header pins are aligned correctly.
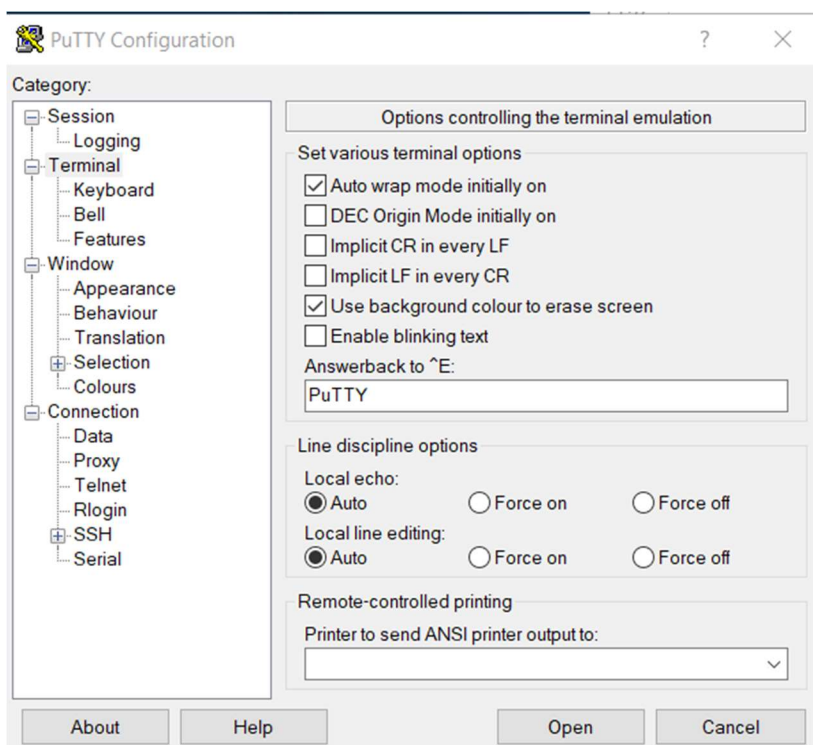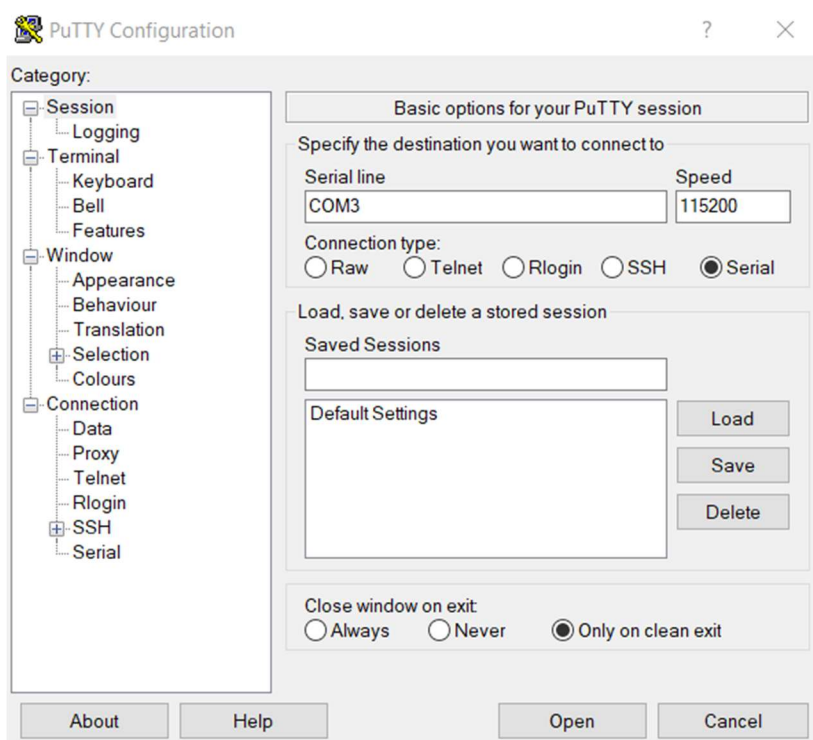8. Connect Arduino Mega back to computer.

Start Terminal Program:

9. Start Putty Terminal Program.
10. Find the Arduino COM port from Arduino IDE, menu Tools/Ports. (You will see something like COM3, etc.). Enter this number in the Serial Line entry:

Serial Line = COM3
Speed = 115200
Connection Type = Serial

PuTTY Configuration

Category:

- Session
  - Logging
- Terminal
  - Keyboard
  - Bell
  - Features
- Window
  - Appearance
  - Behaviour
  - Translation
  - Selection
  - Colours
- Connection
  - Data
  - Proxy
  - Telnet
  - Rlogin
  - SSH
  - Serial

Basic options for your PuTTY session

Specify the destination you want to connect to

Serial line: COM3   Speed: 115200

Connection type:
○ Raw ○ Telnet ○ Rlogin ○ SSH ● Serial

Load, save or delete a stored session

Saved Sessions

Default Settings

Load
Save
Delete

Close window on exit:
○ Always ○ Never ● Only on clean exit

About   Help   Open   Cancel

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Options controlling the terminal emulation

Set various terminal options

☑ Auto wrap mode initially on
☐ DEC Origin Mode initially on
☐ Implicit CR in every LF
☐ Implicit LF in every CR
☑ Use background colour to erase screen
☐ Enable blinking text

Answerback to ^E:
PuTTY

Line discipline options

Local echo:
● Auto ○ Force on ○ Force off

Local line editing:
● Auto ○ Force on ○ Force off

Remote-controlled printing

Printer to send ANSI printer output to:

About   Help   Open   Cancel

11. Click Open.

12. You should see the initial message from monitor program:

```
EfexMon By M.PEKER v1.0b
Press H for help

Ready.

C:>
```

13. type H to print a list of available commands (need to type uppercase for now):

```
A-Assembler
D-Disassembler
L-Load
S-Save
E-Edit
W-Warmst
M-Move
X-Hexdump
G-Go
F-Fill
U-Routines
```

14. type A then F000
15. type NOP [ENTER] NOP [ENTER] RET [ENTER]. Be patient after pressing ENTER.
16. hit ESCAPE
17. type G then F000
18. you just executed your first program :)