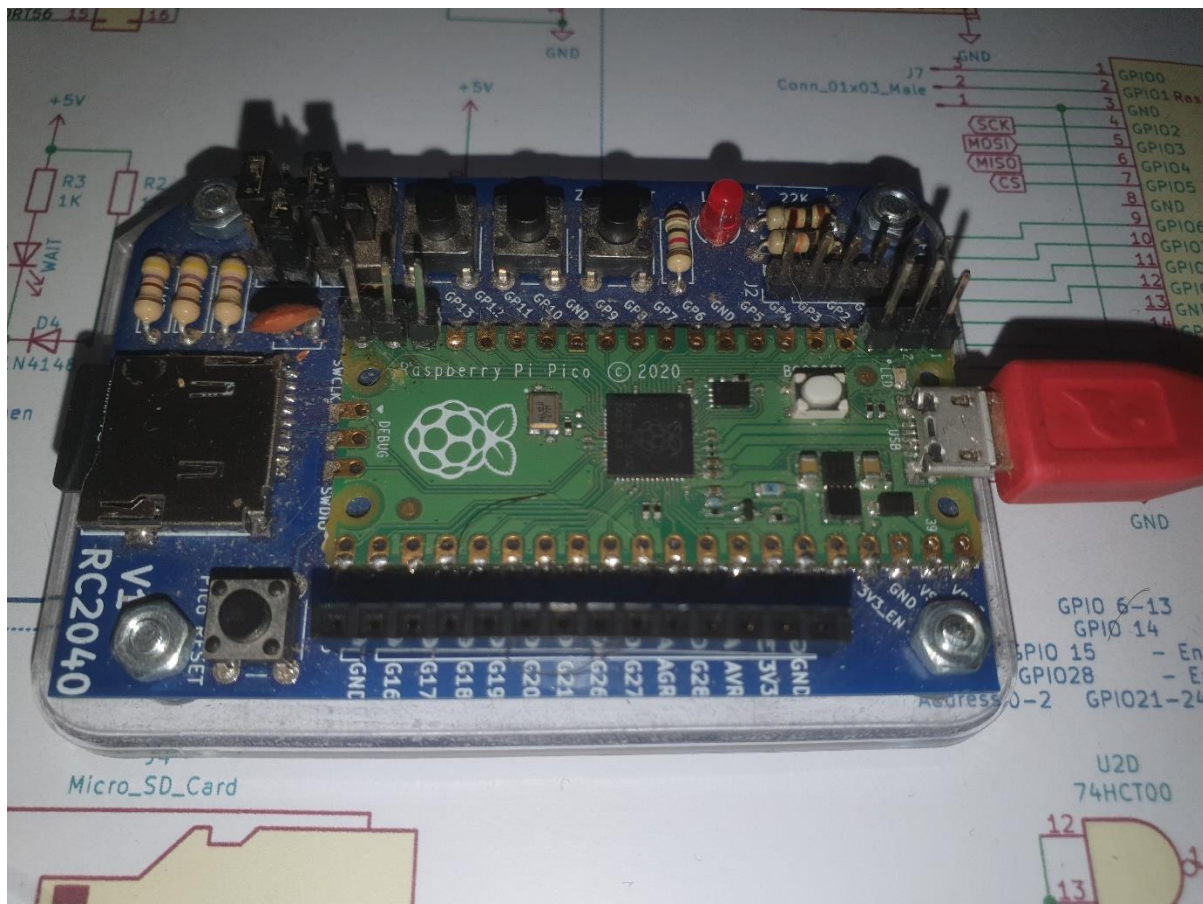RC2040 connected to USB, Serial set to USB
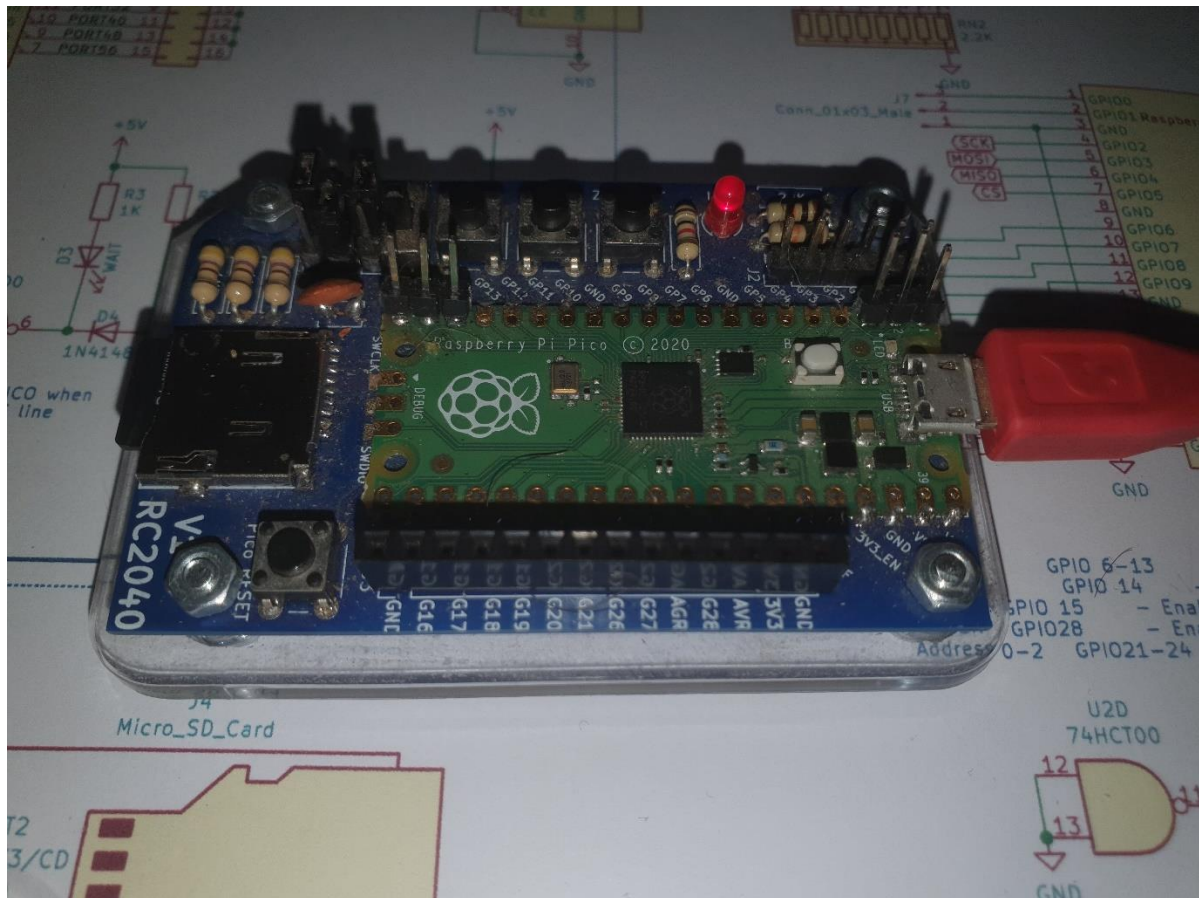

Connect to (in this case COM4) with Terminal Emulator (Terraterm)


```
          PICO RC2040
         Derek Woodroffe
    0      Extreme Kits
      Kits at extkits.uk/RC2040
              2022

ACIA selected
Loading: 'RO881099.BIN'[ronbank:2] for 0x4000 bytes
CPM/IDE File:'CPM Inc Transient Apps ACIA.img CPMIDE.id'

#Core 1 Started#


    #################################
    ######### RC2040 STARTING #########
    #################################


Small Computer Monitor - RC2014
*[]
```

Press BUT button on RC2040

LED Comes ON

Start? Is displayed in Terminal

On your PC, Close your terminal editor and Go to the directory With the Python Files

```
 Directory of c:\myprogs\Python\RC20XXcpm

25/06/2022  16:04    <DIR>          .
25/06/2022  16:04    <DIR>          ..
19/06/2022  16:00    <DIR>          backup
23/06/2022  14:07             2,991 CAT-RC20xx.py
24/06/2022  19:48             3,413 CopyFrom-RC20xx.py
24/06/2022  19:48             3,669 CopyTo-RC20xx.py
24/06/2022  20:02             2,030 EXIT-RC20xx.py
24/06/2022  19:40             2,490 LS-RC20xx.py
24/06/2022  20:01             2,460 RM-RC20xx.py
25/06/2022  16:04    <DIR>          test files
               6 File(s)         17,053 bytes
               4 Dir(s)  150,283,882,496 bytes free

c:\myprogs\Python\RC20XXcpm>
```

To get a directory listing of a CPM drive

Type LS-RC20xx.py COMPORT DriveLetter

For my setup

LS-RC20xx.py COM4 D

```
c:\myprogs\Python\RC20XXcpm>LS-RC20xx.py COM4 D
Drive  D
ELIZA   .BAS      8K      63
ELIZA   .DAT      8K      56
ELIZA   .DOC      8K      52
MANDLE2 .BAS      0K       0
MANDLEAS.BAS      0K       0
MANDLECO.BAS      0K       0
MONSTER .BAS      8K      55
MONSTER .DOC      4K      29
ROSE    .BAS      4K      22
STAR    .BAS     40K     298
STARWARS.BAS     16K     115
TESTMAND.BAS      4K       4
TVIGAMMO.BAS     16K     104
WORDPUZL.BAS      4K      28
ZILCH   .BAS      8K      62
   15 Files occupying    140K,    8036K Free.

c:\myprogs\Python\RC20XXcpm>
```

To Copy a file from the RC20xx

CopyFrom-RC20xx.py ComPort DriveLetter FileName

For my setup

CopyFrom-RC20xx.py COM4 D TESTMAND.BAS

```
c:\myprogs\Python\RC20XXcpm>CopyFrom-RC20xx.py COM4 D TESTMAND.BAS
fetching  TESTMAND.BAS
TESTMAND.BAS Saved

c:\myprogs\Python\RC20XXcpm>
```

To Copy a file to the RC20xx

CopyTo-RC20xx.py ComPort DriveLetter FileName

For my setup

CopyTo-RC20xx.py COM4 D TESTTEST.TXT

Note: The destination file must not already exist on the RC20XX

```
c:\myprogs\Python\RC20XXcpm>
c:\myprogs\Python\RC20XXcpm>CopyTo-RC20xx.py COM4 D TESTTEST.TXT
sending  TESTTEST.TXT
.......
TESTTEST.TXT Sent

c:\myprogs\Python\RC20XXcpm>
```

To remove a file from the RC20xx

RM-RC20xx.py ComPort DriveLetter FileName

For my setup

RM-RC20xx.py COM4 D TEST.TXT

```
c:\myprogs\Python\RC20XXcpm>RM-RC20xx.py COM4 D TEST.TXT
Removed TEST.TXT

c:\myprogs\Python\RC20XXcpm>
```

To cat (type) a file from the RC20xx

CAT-RC20xx.py ComPort DriveLetter FileName

For my setup

CAT-RC20xx.py COM4 D TESTMAND.BAS

```
c:\myprogs\Python\RC20XXcpm>CAT-RC20xx.py COM4 D TESTMAND.BAS
fetching  TESTMAND.BAS
TESTMAND.BAS
05 WIDTH 255
10 MAXITER = 20
20 LET C$ = " .,'~!^:;[/<&?oxOX#  "
30 FOR Y = -39 TO 39
40 FOR X = -39 TO 39
50 CREAL = X / 20
70 CIMAG = Y / 20
80 ZREAL = CREAL
90 ZIMAG = CIMAG
95 COUNT = 1
100 ZM = ZREAL * ZREAL
105 ZN = ZIMAG * ZIMAG
107 ZL = ZM + ZN
110 IF ZL > 4 THEN GOTO 170
120 ZR2 = ZM - ZN + CREAL
130 ZIMAG = ZREAL * ZIMAG * 2 + CIMAG
140 ZREAL = ZR2
150 COUNT = COUNT + 1
160 IF COUNT < MAXITER THEN GOTO 100
170 PRINT MID$(C$, 1 + COUNT, 1);
180 NEXT X
185 PRINT ""
190 NEXT Y
```

(RC2040 ONLY)

To return to Serial Console

EXIT-RC2040.py COmPort

For my setup

EXIT-RC20xx.py COM4

```
c:\myprogs\Python\RC20XXcpm>EXIT-RC20xx.py COM4
EXIT

c:\myprogs\Python\RC20XXcpm>
```

RC2040 LED off

And if you reconnect your terminal you are back to the console