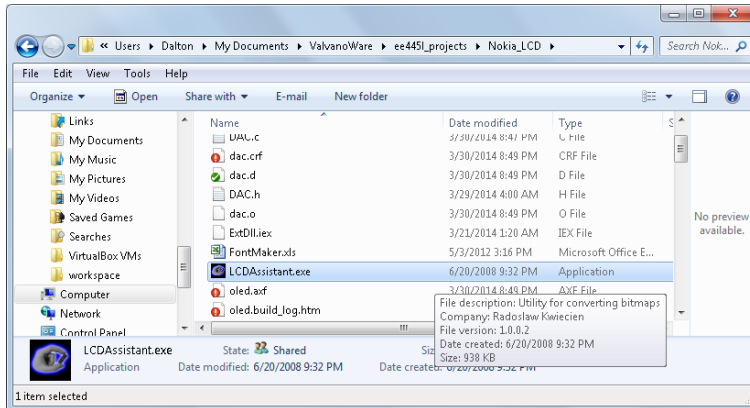


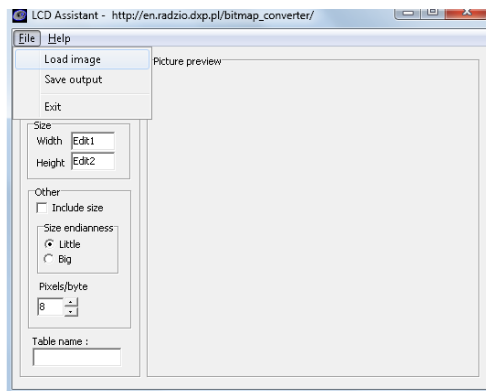
LCD Assistant – Readme.docx

Here is an example of how to create a bit map.

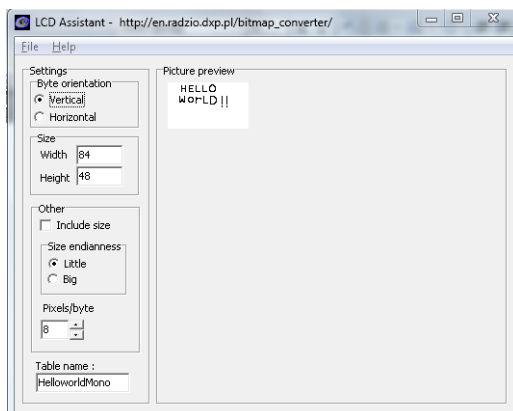
1. First open LCDAssistant.exe (http://en.radzio.dxp.pl/bitmap_converter/)



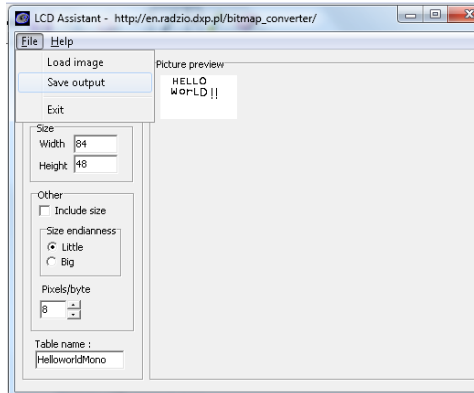
2. LCD Assistant will open and you will have some options
→ Go to File→Load image
Select the bitmap you created in paint or another utility. (I saved my .bmp as a Mono-chrome .bmp file, but I've also use 16-bit color and it worked as well, but our LCD is a monochrome LCD)



3. It should now display a visual in “picture preview” of the bitmap you loaded. Choose the settings as shown. Vertical Byte Orientation, 84x48, Little Endian, 8 pixels/byte



4. Go to File→Save output
Choose a place to save it

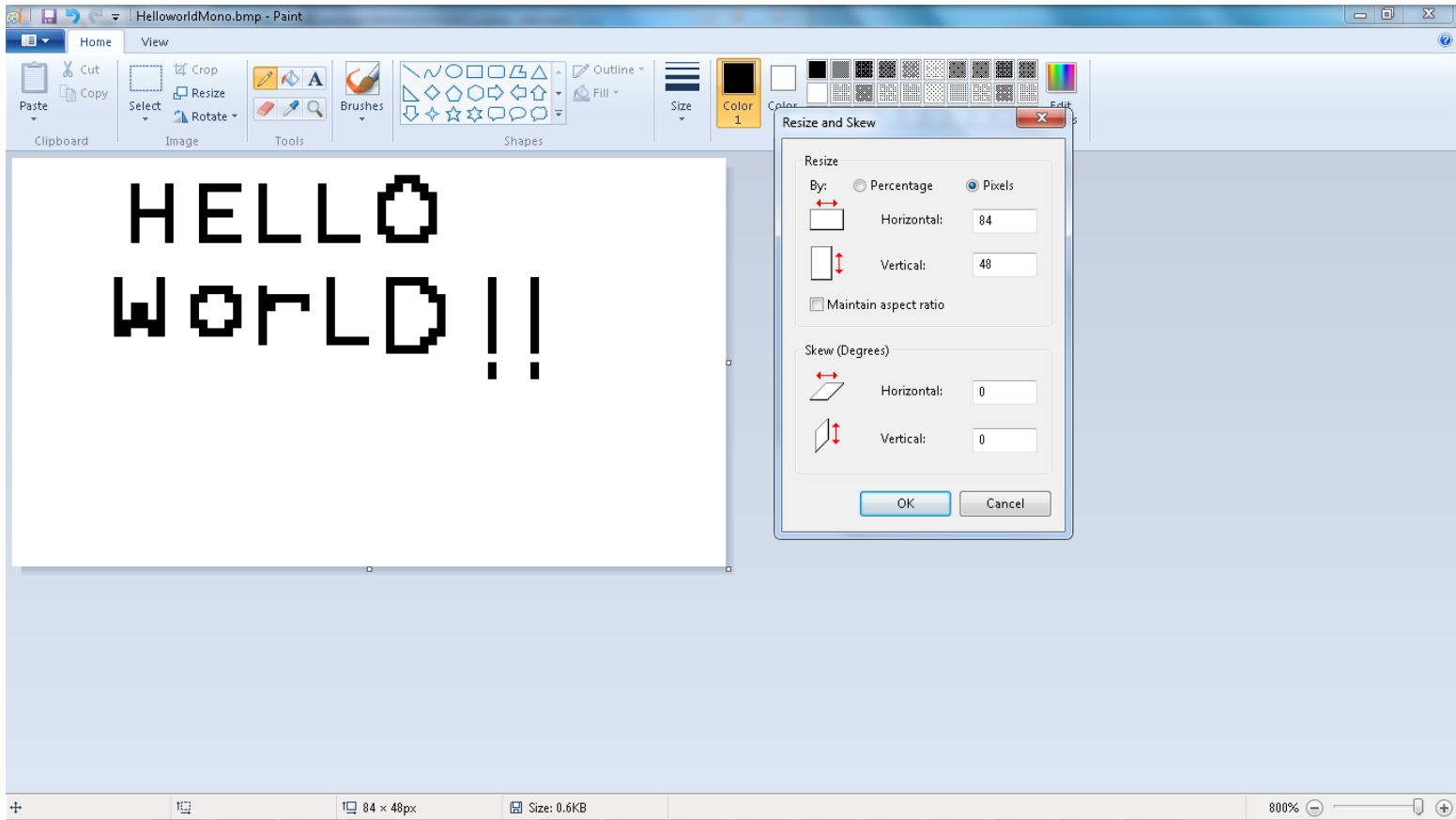


5. Open the document in a txt editor and then copy and paste the bitmap into the program

```
C:\Users\Dalton\Documents\ValvanoWare\ee445l_projects\Nokia_LCD\HelloWorldMonoOut - Notepad++  
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?  
  
DAC.c | LSMDSO.c | SSR.c | ECE.Wr | smeyTSP Wr | smldzr | smldzzf | new_2 | HelloWorld  
  
1 //-----  
2 // File generated by LCD Assistant  
3 // http://en.radio-dsp.pl/bitaaop_converter/  
4 //  
5 const unsigned char HelloWorldHfMono [] = {  
6   0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xF8, 0x40,  
7   0x40, 0x40, 0xF8, 0x00, 0x00, 0x0F, 0x0F, 0x48, 0x48, 0x48, 0x08, 0x00, 0x0F, 0x00, 0x00, 0x00,  
8   0x00, 0x00, 0x00, 0x00, 0xF8, 0x00, 0x00, 0x00, 0x00, 0x00, 0xF8, 0x18, 0x0C, 0x04, 0x0C,  
9   0x18, 0xF0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,  
10  0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,  
11  0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,  
12  0xC0, 0x00, 0x03, 0x00, 0x00, 0x00, 0xC0, 0x03, 0x00, 0x00, 0x00, 0x82, 0x82, 0x82, 0x82, 0x00,  
13  0x00, 0x83, 0x02, 0x02, 0x02, 0x02, 0x00, 0x00, 0x03, 0xC2, 0x02, 0x02, 0x02, 0x02, 0x00, 0x01,  
14  0xC3, 0x42, 0x42, 0x42, 0xC3, 0x81, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0xC0, 0x00, 0x00, 0x00,  
15  0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,  
16  0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,  
17  0x00, 0x00, 0x00, 0x00, 0x1F, 0x18, 0xE, 0xE, 0x18, 0x1F, 0x00, 0x00, 0x0F, 0x19, 0x10,  
18  0x10, 0x19, 0xF, 0x00, 0x00, 0x3F, 0xD3, 0x01, 0x01, 0x01, 0x03, 0x00, 0x00, 0x3F, 0x20, 0x20,  
19  0x20, 0x20, 0x00, 0x00, 0x7F, 0x40, 0x00, 0x00, 0x00, 0x00, 0x31, 0x1F, 0x00, 0x00, 0x00, 0x00,  
20  0x7F, 0x00, 0x00, 0x00, 0x00, 0x00, 0x7F, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,  
21  0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,  
22  0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,  
23  0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,  
24  0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,  
25  0x00, 0x00, 0x00, 0x00, 0x03, 0x00, 0x00, 0x00, 0x00, 0x00, 0x03, 0x00, 0x00, 0x00, 0x00, 0x00,  
26  0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,  
27  0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,  
28  0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,  
29  0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,  
30  0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,  
31  0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,  
32  0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,  
33  0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,  
34  0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,  
35  0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,  
36  0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,  
37  0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,  
38 };
```

Normal text file

length : 3350 lines



Draw it pixel by pixel with paint zoomed in at 800%

