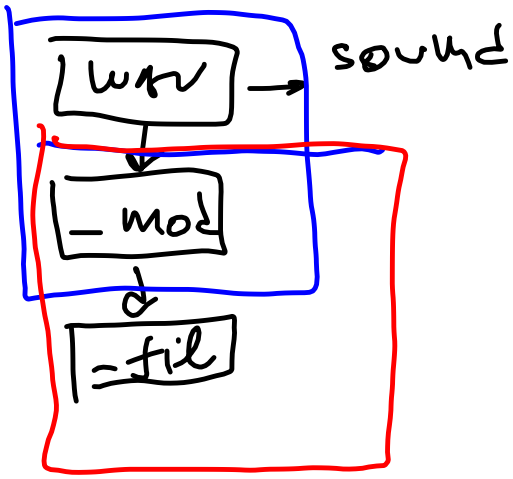
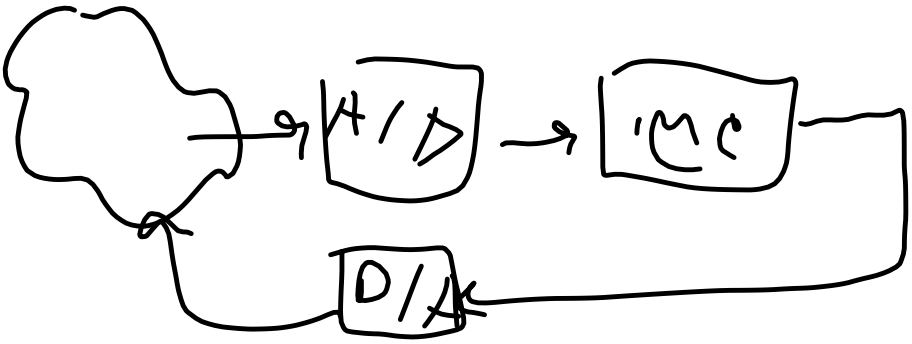
CPE381 #25

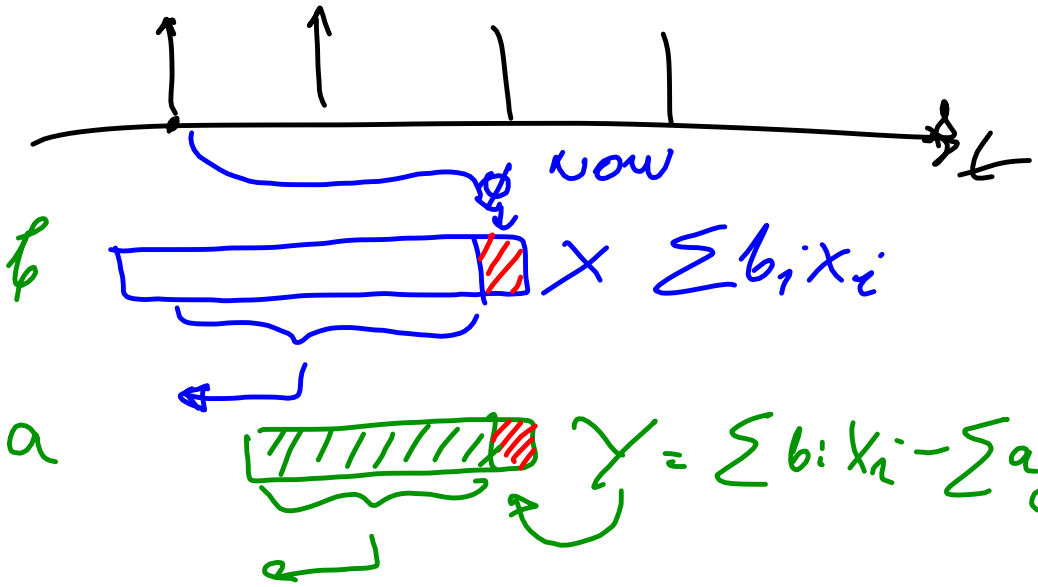
35% Final
4% HW #5
12% Phase II
51%




```
{
read header(WAV)
   Fs
if (Fs == 11025)
    B1,A1
else
   if (Fs == 22050)
   {
     B2,A2
   }
   else
   {
     print "Sampling freq not supported"
     return
   }
```

```
switch (Fs)
case 11025:
case 22050
default:
```



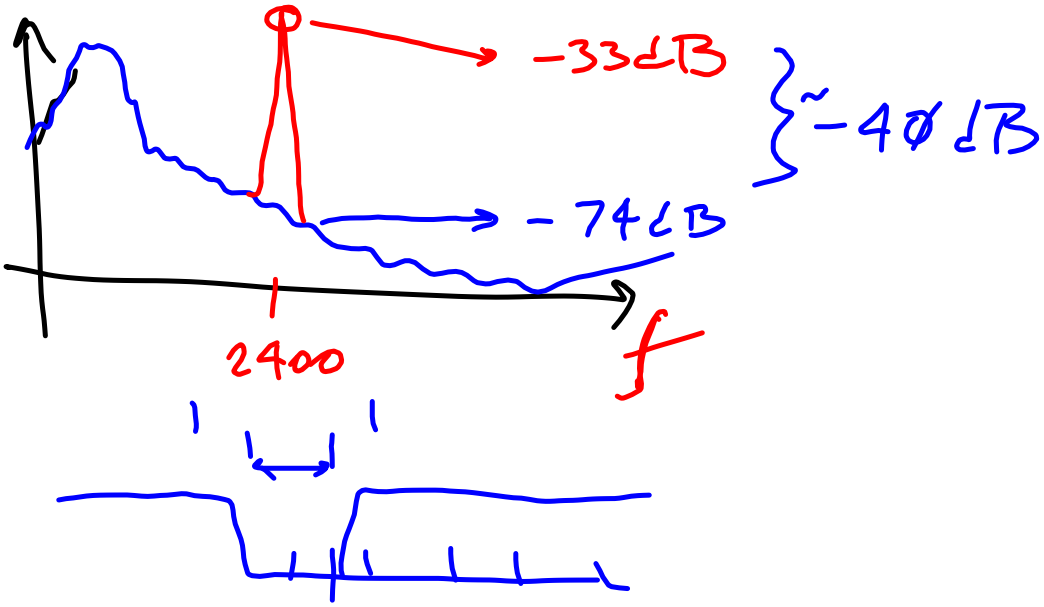


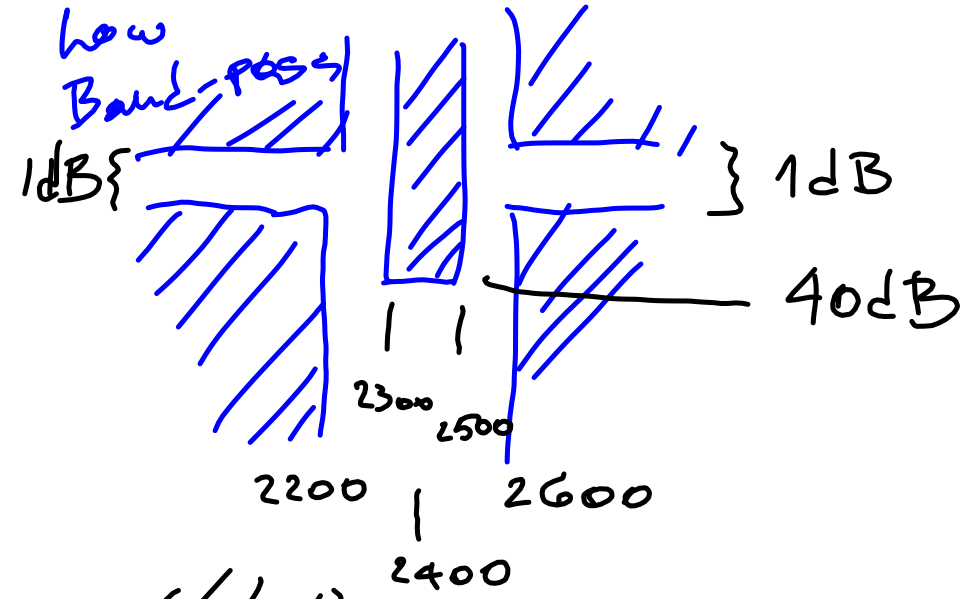
IMPLEMENTATION

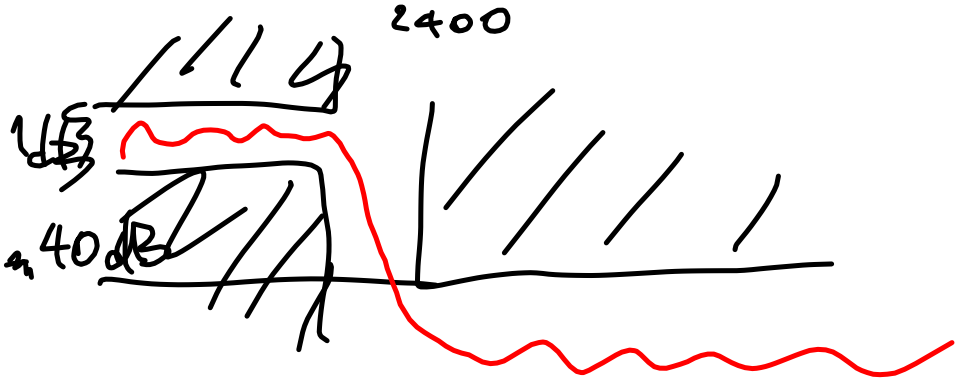
= FDATOOL "CONVERT TO SINGLE SECTION"

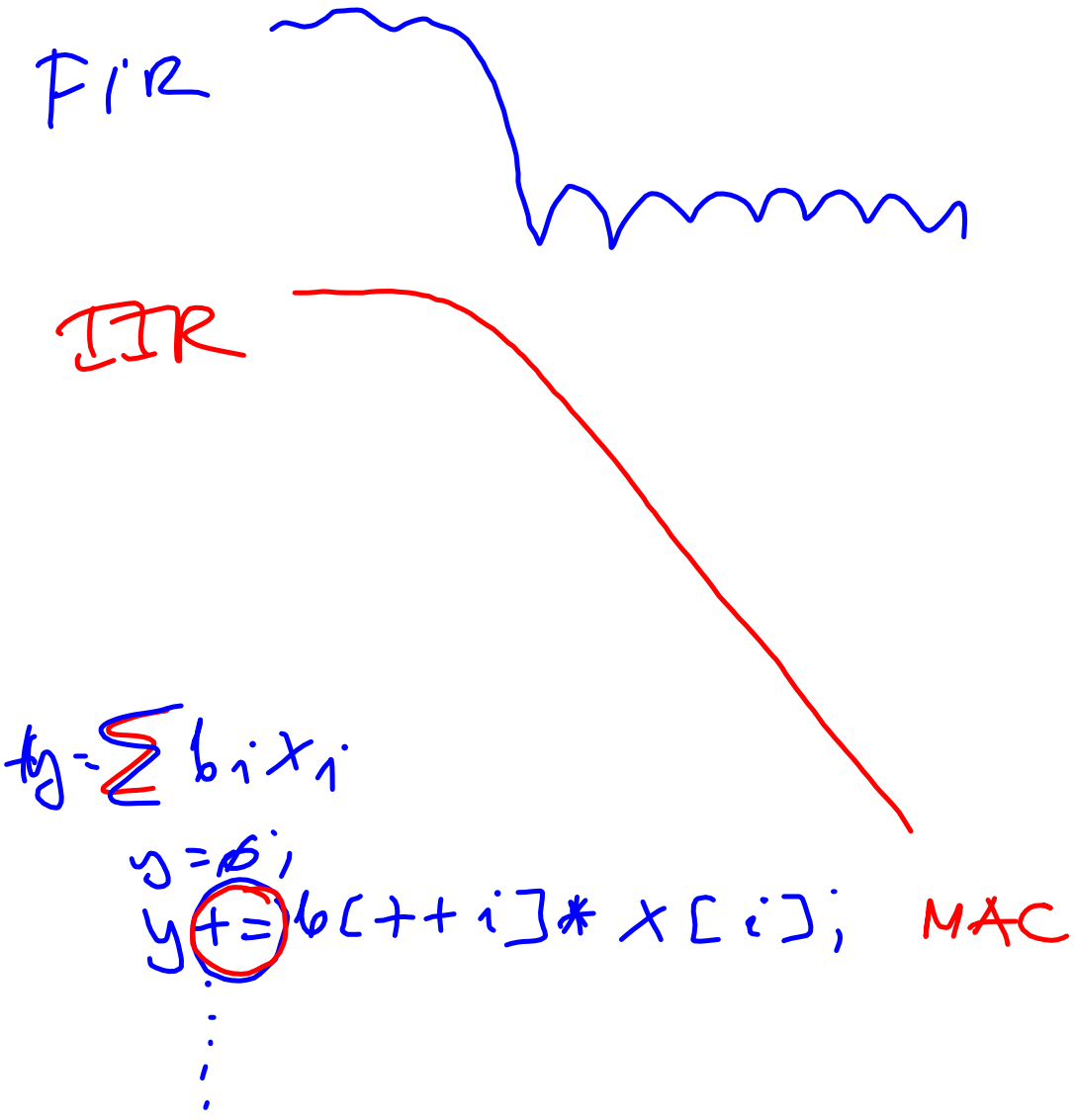
= EXPORT TO HEADER FILE

= USE VARS FROM ↑ IN YOUR CODE


-33dB
~-40dB
-74dB
2400
f


low
Band-pass
1dB
1dB
40dB
2300
2500
2200
2600
2400


40dB


FIR
IIR
$y = \sum b_i x_i$
y = 0;
y += b[++i] * x[i];
MAC

sptool

[x Fs]=wavread('wav_mod.wav');

- import from Workspace
- define Fs
- design filter
- spectral analysis

one channel only

xl=x(:,1);