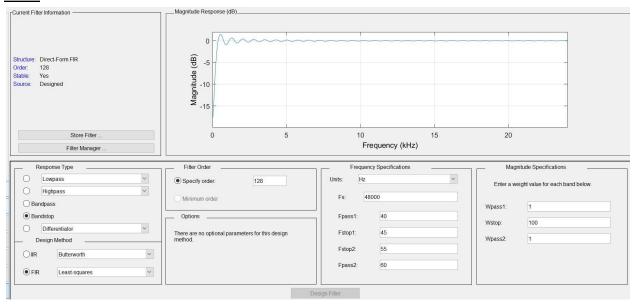
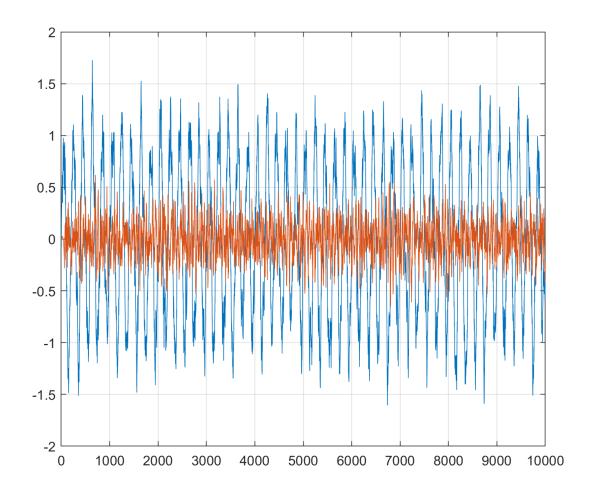
Programmable Embedded Systems Assignment 5

Submitted by **Pratyush Jaiswal 18EE35014**

Matlab codes + fdatool file attached

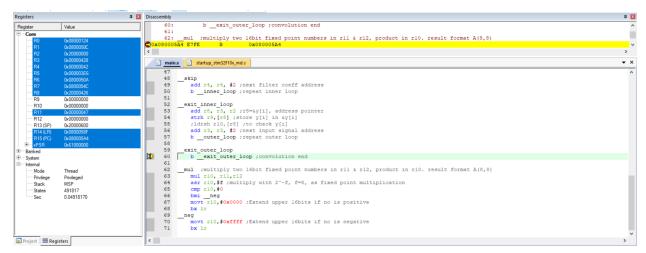
<u>Filter</u>





Saved the input and signal coefficients in hex, opened the filter convolution code of Gargi madam and changed the filter coefficients as well as input according to our data(hex conversion code attached in Assg5.m)

Ran the code The debug output is



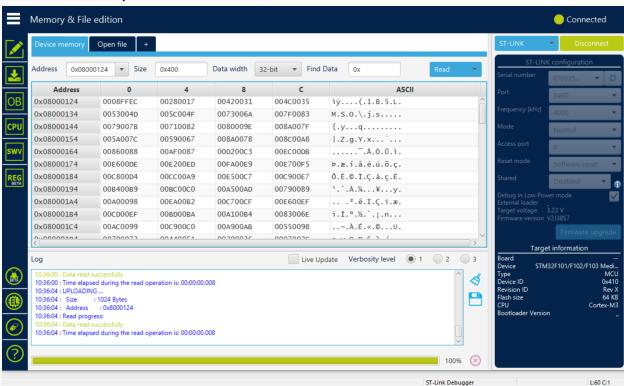
R0 has the starting address of the input signal

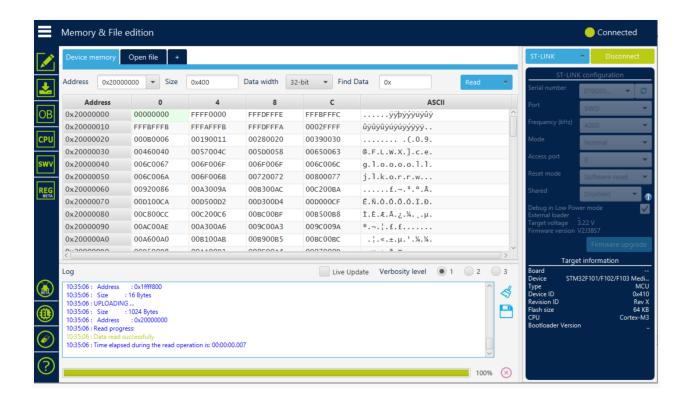
R1 has the address of the filter coefficients

R2 has the starting address of the output

R8 has the ending address of the output

Save bin files open is STM cube





Got the bin files and ran matlab_reading_stm32.mat which plots the following Keil takes less input so only took the first few input readings

