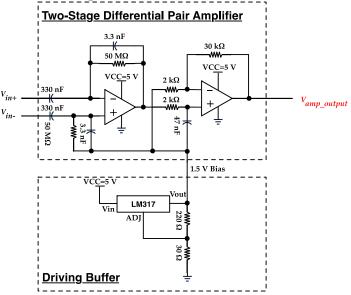
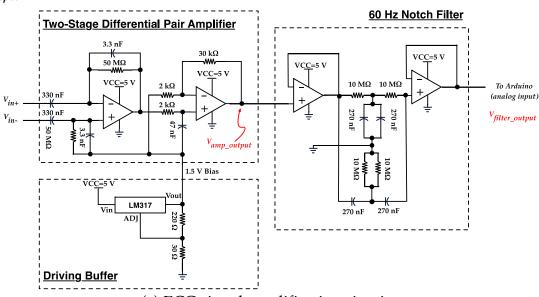
Lab 2: ECG Circuits, Signal Sampling and Digitalization

Following the schematic Fig. (a) below, build the ECG signal amplification circuits with the provided circuit elements. Capture and describe the waveform at this stage.



- (a) ECG signal amplification circuits.
- To remove the 60-Hz power noise, we can add a notch filter after the amplifier output. Capture and describe the waveform at this stage. Compare the output signal with that of V_{amp_output} .



- (a) ECG signal amplification circuits.
- 3 Connect the above circuitry (V_{filter_output}) with Arduino platform. We use the ADC in Arduino for the signal digitization. With the provided sample codes, you can

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save/monitor the ECG signals from a PC.	
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