Analog and Digital Modulation

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- 1. Design and implement,
 - (a) an AM modulation system allowing for both the center frequency and the modulation index to be changed, and display the spectrum of the modulated signal
 - (b) an FM modulation system allowing for both the center frequency and the frequency deviation to be changed, and display the spectrum of the modulated signal
 - (c) a QPSK system, display the signal spectrum and the signal space diagram
- 2. What are the implications of added noise to AM, FM and QPSK?. How are they different.