

Task 2

Build your framework for Signal processing.

Add to it the following features:

- 1) Your UI should enable to display a signal in either continuous or discrete representation.
- 2) The ability to generate sinusoidal or cosinusoidal signals, the user should choose whether he wants cosine or sine, the amplitude A , the phase shift θ , the analog frequency, and the sampling frequency needed. (Hint: the sampling frequency chosen should obey the sampling theorem). Your framework should include a menu named Signal Generation with two items sine wave and cosine wave.

Your framework should have the ability to display two signals at same time.