1.

- Generating analog signal for time as numpy array.
- Sampling the signal and visualizing sampled signal.
- Quantizing the sampled signal and visualizing quantized signal.

https://drive.google.com/drive/folders/1Exy4H4T56Rvbq-w3Jwe2FuBIDtu-zVnd

2.

- Folding
- shifting

https://drive.google.com/file/d/1--7PcQbIK3G4_1pLRHbYeh-XRCuJ0YHd/view?usp=sharing

3.

- Convolution
- Correlation

https://colab.research.google.com/drive/1usxUWfkIJKYvYwCPKLCpnxELuG8cjXaO?usp=sharing

4.

- Signal denoising by moving avg signal
- Gaussian filter

https://drive.google.com/file/d/1UFXxqod3McXJPOb36ucaFAzlmiZqxUlz/view?usp=sharing

5.

- Compression
- Expansion

https://colab.research.google.com/drive/134iduGRcQBc88jzzp1-ZMfq4CEplHOX5?usp=sharing

6.

- Complex Wave
- Real and imaginary part
- Descending Complex Wave
- Poles and zeros.

https://drive.google.com/file/d/1qLEJnt4NF7ooJQcqKpkHyQarlijyw28l/view?usp=sharing

7.

- Signals with DC component
- Fourier Transformation
- Power Density Spectrum

https://colab.research.google.com/drive/1ywVr_Q_fDuwY1RDDUfJ0NFYYJSVrYG6a?usp=sharing