1. Change the Time of a Signal without Varying the Frequency README.md # Time Shift of a Signal

Description

This program demonstrates how to shift the timing of a signal without altering its frequency characteristics. This technique is useful in various digital signal processing applications where time alignment is necessary without affecting the signal's content.

Installation

Requires:

- Python 3.x
- NumPy
- Matplotlib

Install dependencies with: pip install numpy matplotlib

Usage To run this program, use the following command:

python time_shift.PY This will output a plot showing the original signal and the time-shifted signal.

Authors
- [Your Name]

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2. Change the Frequency of a Signal without Varying the Time README.md

Frequency Modification of a Signal

Description

This program modifies the frequency of a signal without altering the time scale. It's particularly useful for signal analysis and synthesis in communications and audio processing.

Installation

- Requirements:
- Python 3.x
- NumPy
- Matplotlib

To install required pip install numpy matplotlib

csharp

Usage Run the program with:

python frequency_change.py A visual output comparing the original and frequency-altered signals will be displayed. ## Authors - [Your Name]

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