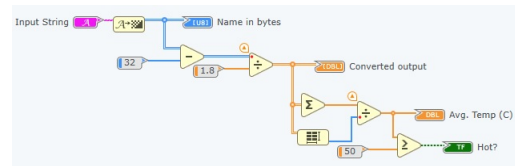


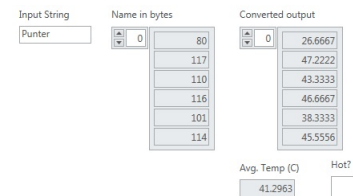
Lab 1 - Introduction to LabView

Exercise 1 - Data Types in LabView

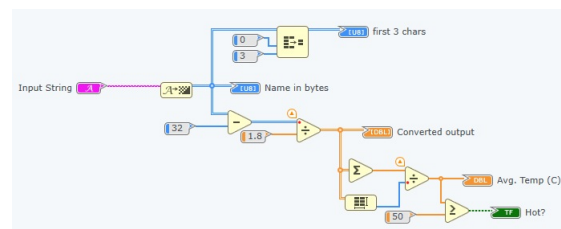
Block Diagram - Convert name into byte value, then convert from Fahrenheit to Celsius



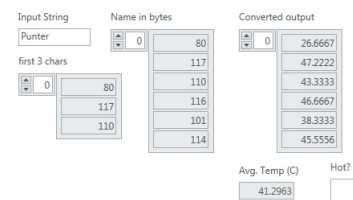
Panel - Running conversion of name from Fahrenheit to Celsius



Block Diagram - Get integer value of first three characters



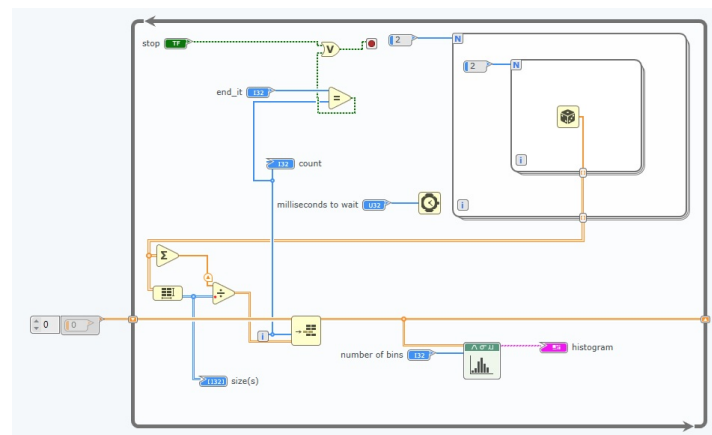
Panel - Running integer value of first three characters



Exercise 2 - Implementation of the Central Limit Theorem

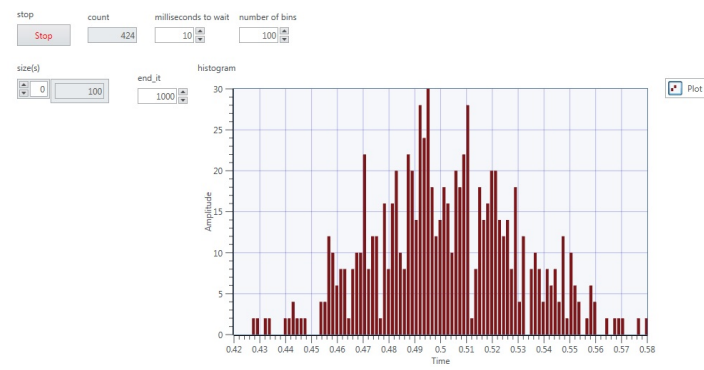
- First, we created a uniform distribution generator.
- By repeatedly generating uniformly distributed random numbers, we observed the sample mean converging to a normal distribution.

Diagram 1



Output:

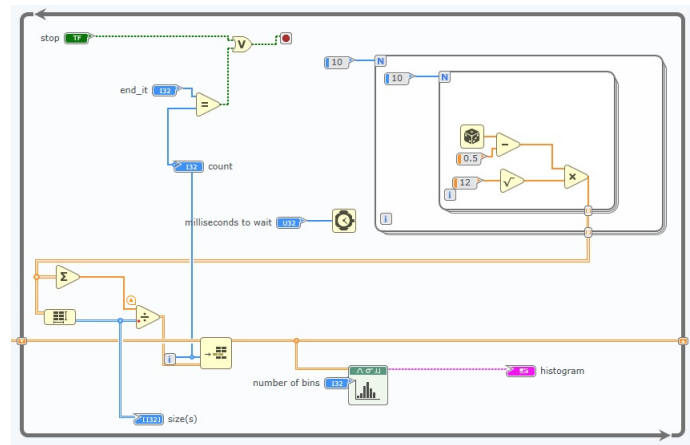
Histogram 1



Task: to standardize the normal distribution produced by the Central Limit Theorem

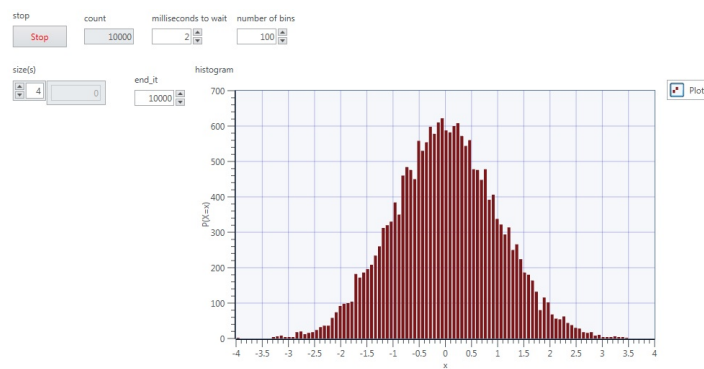
- Subtracted the mean from the random variable, and then dividing by the standard deviation

Diagram 2



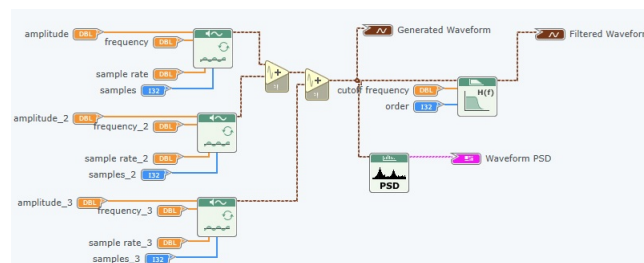
New output was as follows:

Histogram 2

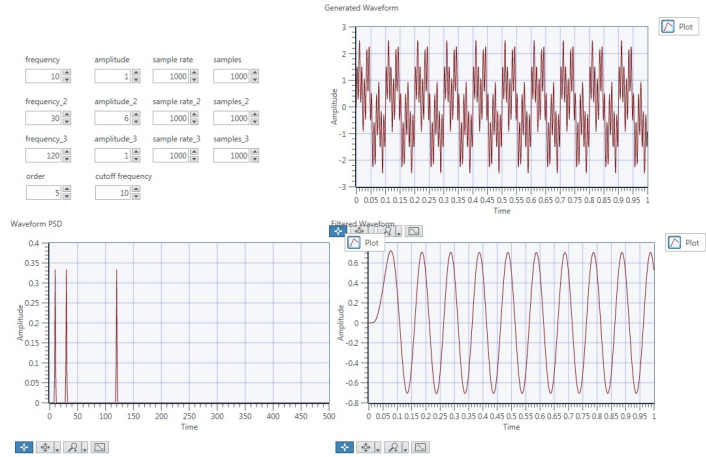


Exercise 3

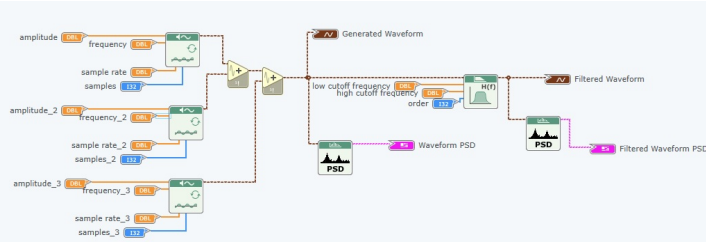
Block Diagram - Just lowpass filter



Front Panel - Just lowpass filter output



Block Diagram - Bandpass filter



Front Panel - Bandpass filter output

