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Scilab code Solution 1.01 Continuous Signal 1 //Experiment 1 2 //windows 7 64 Bit

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```
3 //Scilab 6.0.1 4 5 6 //AIM:DevlopaprogramtogenerateFollowing  
ContinuousSignala)Sinusoidal;b)Cosine;c) Triangle;d)SquareWave. 7 8 clearall 9 clc  
10 V =input( ' Enter the value of Voltage in volts : ') //Examplev=20Volt 11 f  
=input( ' Enter the value of frequency in Hertz : ')
```

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```
SignalFrequency_1 = 6e3; SignalFrequency_2 = 2e3; SamplingFrequency =  
44.1e3; n = 0:49; Signal_1 = sin(2*%pi*n /  
(SamplingFrequency/SignalFrequency_1)); Signal_2 = sin(2*%pi*n /  
(SamplingFrequency/SignalFrequency_2)); plot(n, Signal_1) plot(n, Signal_2)  
Conclusion
```

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discrete time signals Scilab code Solution 1.1 Waveform generation using DT signals 1 //Expt1.Waveformgenerationusingdiscretetime signalsusingScilab 2

//O.S.Windows10 3 ////Scilab6.0.0 4 //GenerationofunitstepDiscretesignal 5 clear; 6

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```
clc; 7 t=0:4; 8 y=ones(1,5); 9 subplot(3,2,1); 10 plot2d3(t,y); 11 xlabel( 'n '); 12 ylabel( 'u(n) ');
```

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PrayagS/SciLab_Exercises development by creating an account on GitHub.

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Filtering of Signals. Filtering of signals by linear systems (or computing the time response of a system) is done by the function flts which has two formats . The first format calculates the filter output by recursion and the second format calculates the filter output by transform. //make signal and filter [h,hm,fr]=wfir('lp',33,[.2 0],'hm',[0 0]);

Basic tools for Signal Processing | www.scilab.org

```
18fc =input("Enter Analog cutoff freq . in Hz=") 19fs =input("Enter Analog
```

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```
sampling freq . in Hz=") 20M =input("Enter order of f i l t e r =") 21w =  
(2*%pi)*(fc/fs); 22disp(w, ' Digital cutoff frequency in radians . cycles /. samples ');  
23wc = w/%pi; 24disp(wc, ' Normalized digital cutoff frequency in.
```

Scilab Manual for Digital Signal and Image Processing by ...

which causes Scilab to execute all the Scilab commands contained in the file called file.name. To know what signal processing tools are available in Scilab one would type-->disp(siglib) which produces a list of all the signal processing functions available in the signal processing library. 1.2 Signals

Magnitude - Scilab

As the syntax of Scilab is similar to MATLAB (R), Scilab includes a source code translator for assisting the conversion of code from MATLAB (R) to Scilab. Scilab is available free of cost under an open source license and is one of several open source alternatives to MATLAB (R). Scilab has been widely exploited for different applications in signal processing, statistical analysis, image processing, fluid dynamics simulations, numerical optimization, and modeling, simulation of explicit and ...

Course on Digital Signal Processing (DSP) & Image ...

```
x = ( a ) ^ n; a = gca (); a. thickness = 2; a. x_location = "origin"; a. y_location =  
"origin"; plot2d3 ( 'gnn' ,n,x) xtitle ( 'Graphical Representation of Exponential
```

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Decreasing Signal', 'n', 'x...

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How to Use Scilab to Analyze Frequency-Modulated RF Signals

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first point to know is how to load and save signals or only small portions of lengthy signals that are to be used or are to be generated by Scilab Finally, the generation of synthetic (random) signals is an important tool in the

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