## Simulation Output:

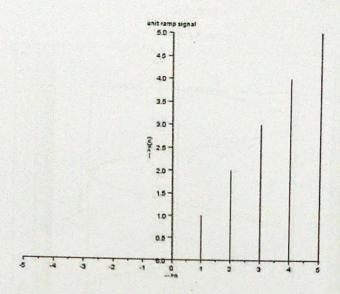


Figure 1.7: unit ramp

## Pre-lab questions:

- 1. What is continuous signal and discrete signal?
- 2. What are the properties of a signal?
- 3. How is a signal generated?
- 4. What is the difference between analog and digital signals?
- 5. Which signal is more reliable analog or digital?

## Post-Lab questions:

- 1. Derive the code and show the output for signum function.
- 2. Derive the code and show the output for sinc function.
- 3. Derive the code and show the output for discrete exponential wave.

Result:

Hence, basic Signals were generated and Observed using Scilab.

Advisor 19-2000

## DIGITAL SIGNAL PROCESSING LAB EXPERIMENT-I CHENERATION OF BASIC SIGNALS

I Phe- Lab Overtions.

What is Continuous Signal and discrete Signal?

A Continuous time Signal is an analog te presentation of a notural signal, with Characteristically Smooth transitions between peaks and Valleys. A discrete time signal is a diff at tepresent ation of an Continuous signal, it has a magniture that in half constant by a direction of each sample.

What are the properties of a signal?

Phase It describes the position of the wave from helatile to time zero.

Wowelength: The total length el the wave is known as the wavelength. (X).

Frequency: The number of words passing through a point in a second is the luxurency of the libral (V)

Time heriod: The amount of time required to Compense one full cycle

Haw is Signal generates?

A function generator is the most common type of signal generator. It generates simple refetitive would arms of varying magnitudes and forgoveries

What is the difference between analog and digital Signals?

Analog lignals is a Continuous Signal which represents physical measurements. Digital Signals are discrete time Signals grenerated by digital modulation.

Aditon 7-19-2022

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Soln

Sofn.

John.

S. John.

Which Signal is more reliable analog or digital?

Digital Signals are a more reliable from of thorounitting information because on error in the amplitude or frequency wall has to be very long in order to Gause a jump to a different value.