Digital Shigard Processing hab Experiment 2: Greneration of Continuous and Diskrete Time Signal fle Lat Deline Continuous time Signal. A signal of Continuous amplitude is Galles Continuous Signal or Sola andog Singo, when it has values at every instant of time. In Continuous time Signel Variable of time is Continuous fg: Sine ware, Cosine ware etc 2. How is disched time signal generated? Soln. Discrete time Signal is obtained by Sampling a Sequence at uniformly spaces times, it has an associated Sampling take. Discrete time signals may have several origins but can usually be considered into two groups by acquiring Volus of on orally signed at a Constant or Voeriable rate Draw the graphical representation of Continuous time Signal and Haute the Signal: Holn. Discrete Time Signal Continues Time Signal Post Lat Questions: Write any three July between analog and Jigital Signal. Analog Signal Son. 1 They are Continuous 1 They one discrete

2 Represented by Sinusoial values

3 Continuous Range of Value

2. Represented by brusie type come

3. Discontinus tage of Values.

7

Wite Cale to generate Jiscrete Signal Bu time interved SUB and 7008 ving Bulpla Bunction.

80n.

n= 0.000005 2/10000000 = 0.000007;

2C = Sin (7\* n) + Sin (10\* n);

Subplot (111)?

Plot 2d3 (n, 22, 8tyle = no for ("ref"));

xlatel ('n');

y label ('xcn)');

thle ('Dibuelle Time Signal');

Give advantages of Jigital Bignal over gralog Signal.

Jan.

- i) Digital Signal is make Sease and they do not got demages by noise.
  ii) They allow Lignals transmited over a lengthy distance.
- ii) Digital Signals enable the thoramission of multi frectional corrent.
- to) By using these signed we an translate the mossage acidio, vite into device larguage.

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(2)