**Digital Signal Processing (DSP)**

**Exp.1 continuous time signal v.s. discrete time signal**

**(1)Continuous time signal**

**t= 0:0.2:10**

**f=2**

**a=1**

**y=a\*cos(f\*t)**

**subplot(2,1,1)**

**plot(t,y,'r','LineWidth',2);**

**xlabel('time')**

**ylabel('amplitude ')**

**title ('continuous time signal ');**

**%$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**(2)Discrete time signal %%%%%**

**t= 0:0.2:10**

**f=2**

**a=1**

**y=a\*cos(f\*t)**

**subplot(2,1,2)**

**stem(t,y,'b','LineWidth',2);**

**xlabel('time')**

**ylabel('amplitude ')**

**title ('discrete time signal ');**



**Discussion:**

Q1/ Generate cosine signal with the following parameters:

t = 0:0.2:12

a = 5

f = 4Hz

The figure must be having name, axes titles, and grid.