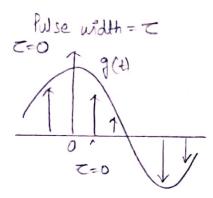
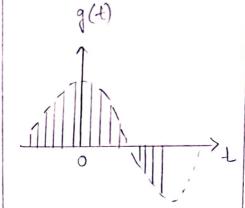


## Instantaneous Sampling



- · It is not a proctical Method
- · Sample late is infinity

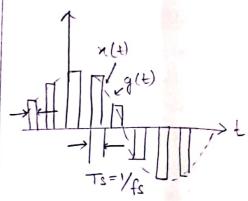
## Natural Sampling



- · This method is used practically
- · Sample rate sodisfies Nyquist Caiteria

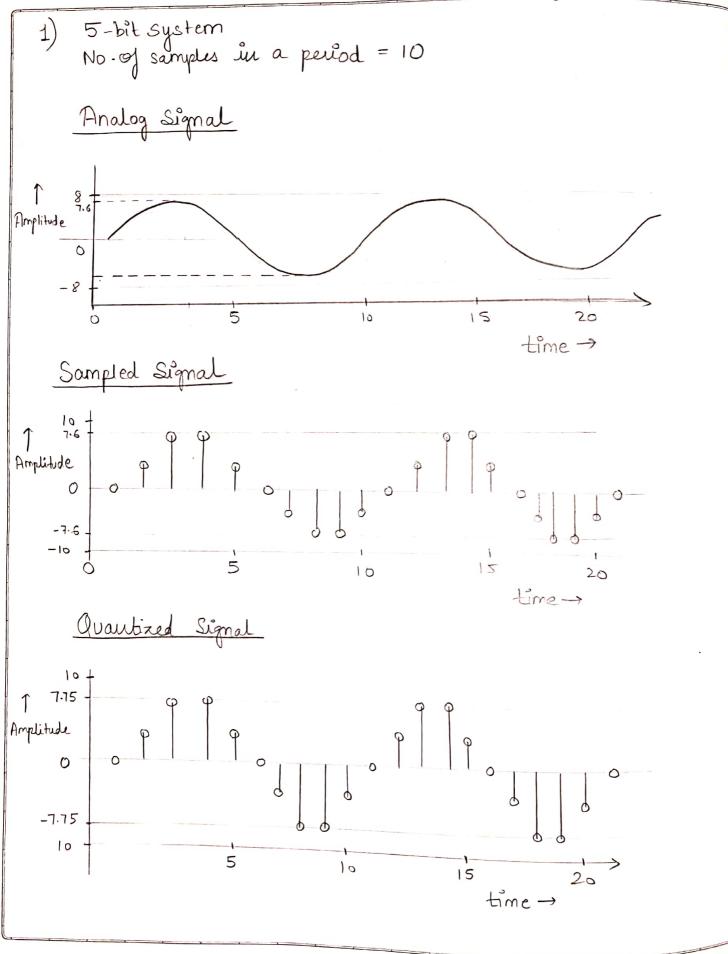
Flat-Top Sampling

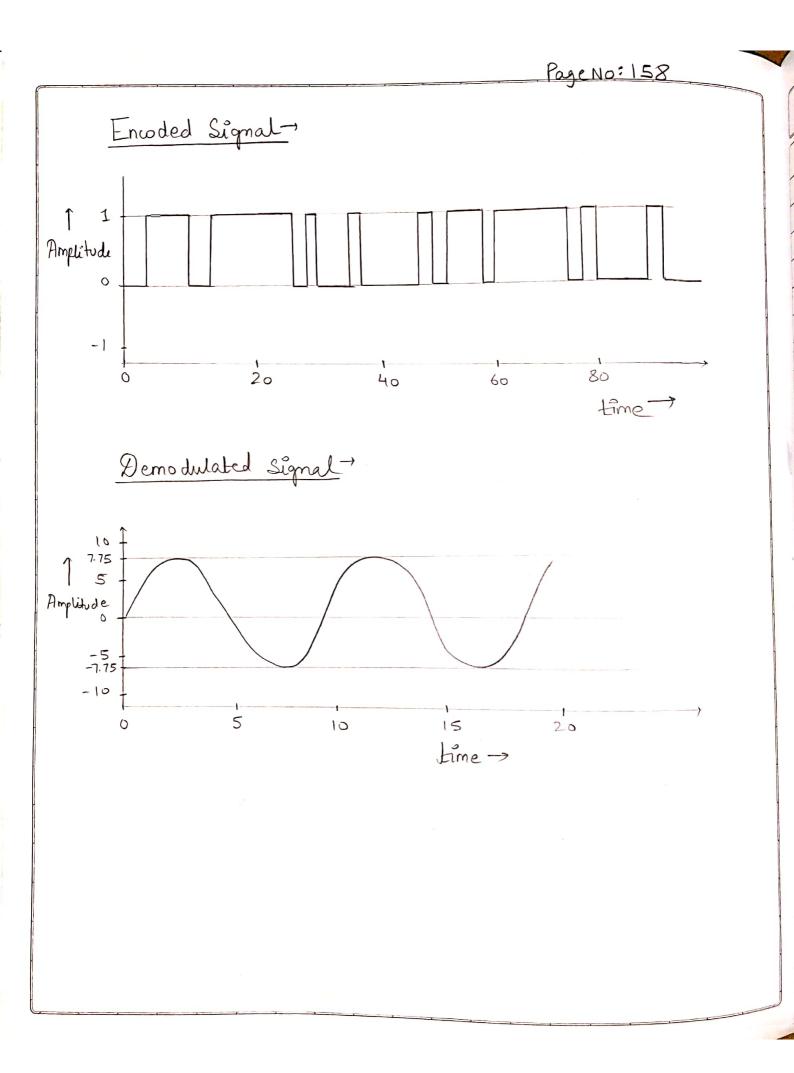
Pulse width = Z

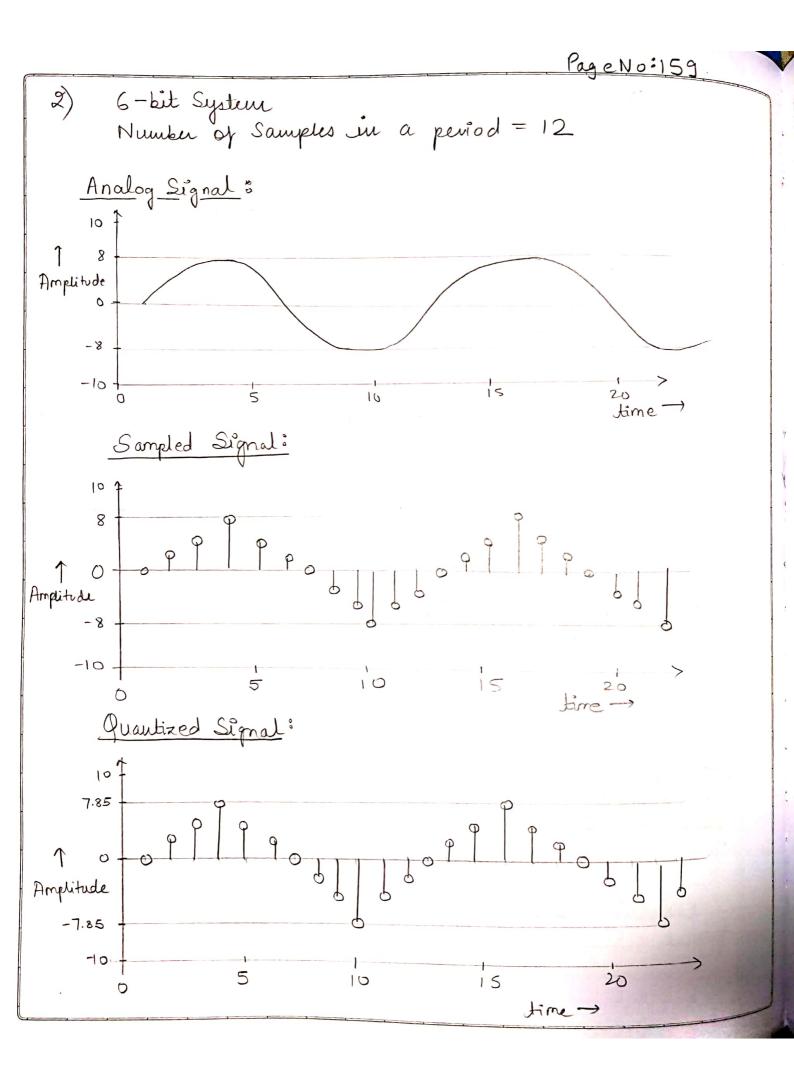


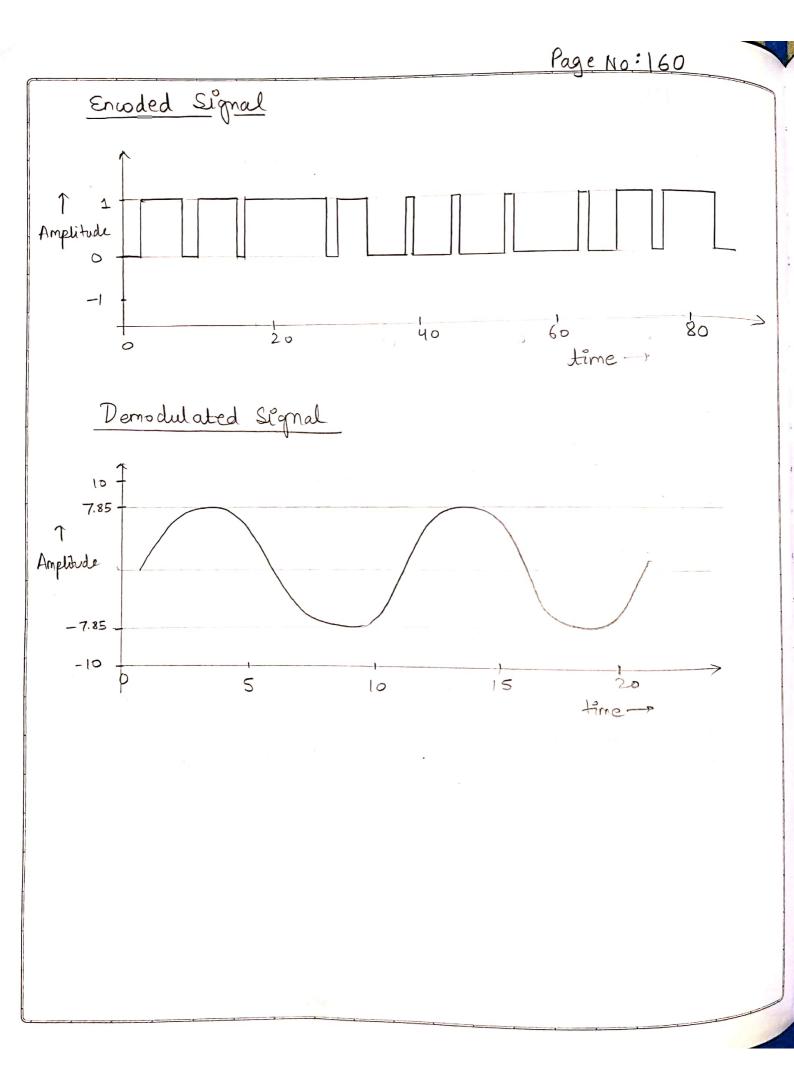
- · This method is also used practically
- · Sample rate satisfies Nyquist Criteria

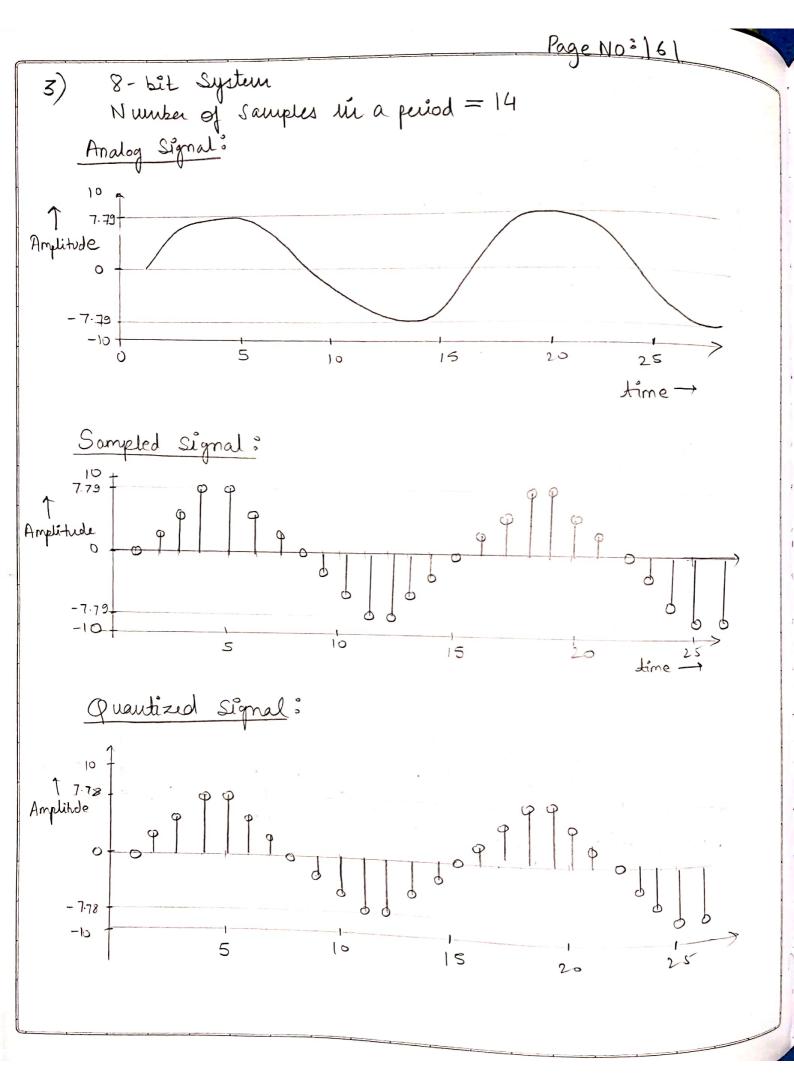
	Date
xpt. No	Page No. <u>156</u>
code = dezbi (ind, left-msb)	/- Convert decimal to burary
for i = 1:11	·
for j=1:n	
(coded (k) = code(i,j) %	Convert code moting to a coded row weder
J = J + 1; $K = k + 1;$	
end	
i=i+1;	
end	
Subplot (2,1,1); grid on; Staies (coded); / Display the e axis ([0 100-2 3]); title ('Ence	
Stails (coded); "Display the e	ncoded signal
axis ([0 100 -2 3]); title (Ence	oded Signal'))
ylabor (Amplitude>))	
Xlabel ('Time->');	
0/ 0	
7. Demodulation of PCM Signal	
aunt = reshape ( inded in length ) and	(ad) / (b);
Index = bi2de (qurd', left-msh'); % ( q = del * index + Vmui+ (del/2); %	retback the index in decimal form
9=del*index + Vmin+ (del/2); ?	6 Getbock guartized values
suspect (2,1,2); and on	
Plot (9); %- Plot d	emodulated Signal
- ylakel ( Amplitude>');	V
Label( Time>');	

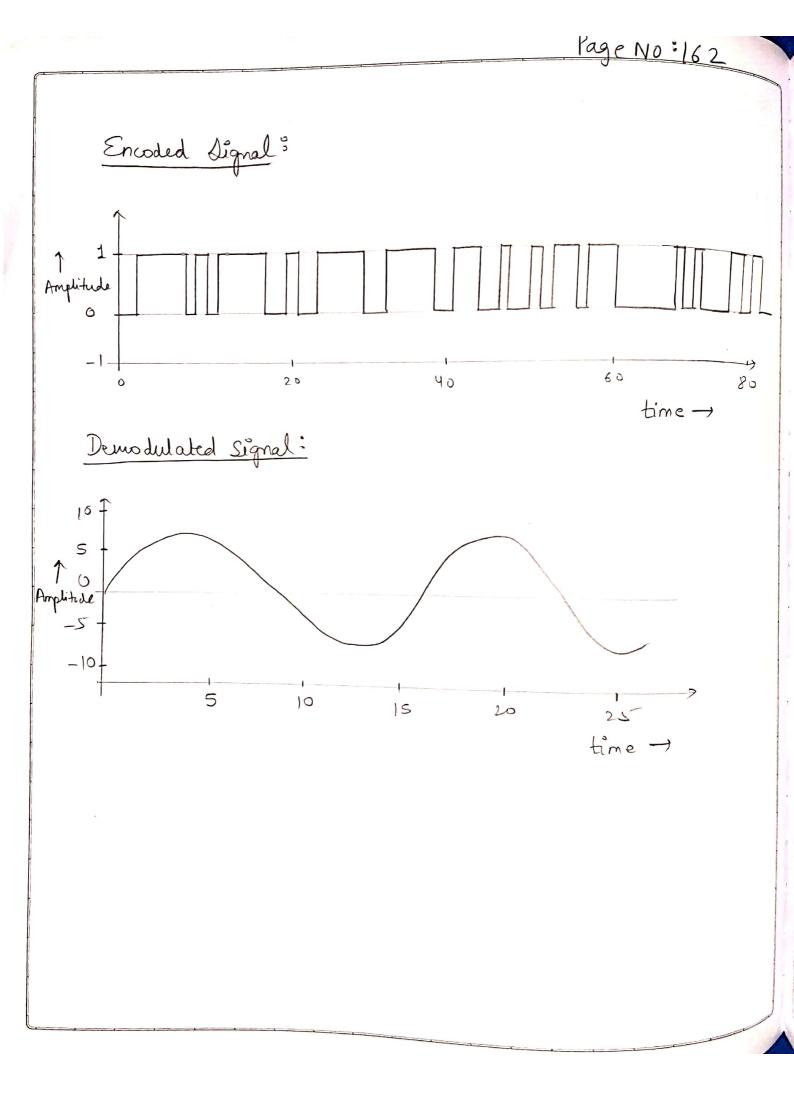












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Expt	t. No1 O	Page No	
	Advantages of PCM:	,	
1) 27 3) 4)	Immone to channel juduced noise Refeatus Can be employed along a Encoders allow secured data tran It ensures uniform transmission q	and distortion the transmitting charmel smission palify	. ,
	Disadvantages of PCM?		
1) 2)	Pulse Code Modulation jucieares the A PCM system is somewhat mo another system.	transmissión bandwidth re complex than	,
	Application;		
1)	Lu compact dis k Digital telephony Digital radio applications		
	Conclusión:  Successfully demonstrated the Purted technique and observed sampled, decoded time domain signal for using matlab software.	lse Code Modulation quantized, encoded and r different bit codes	1