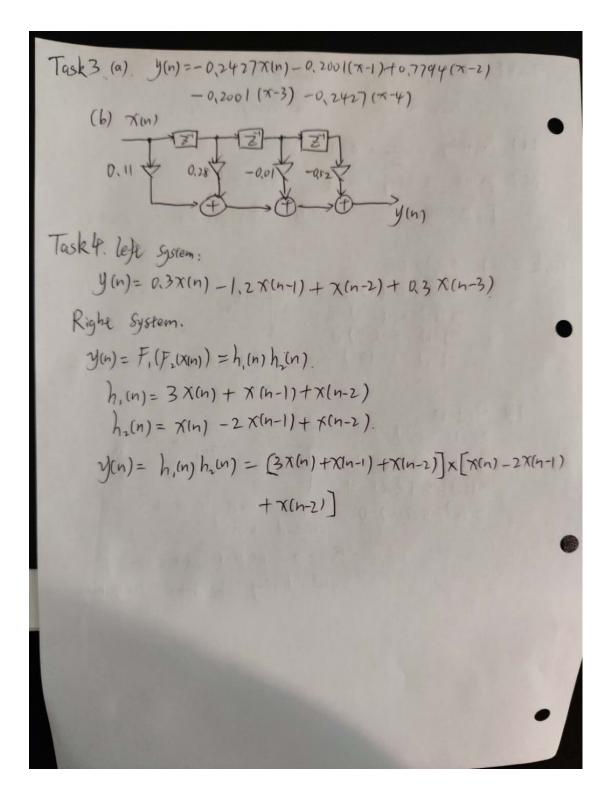
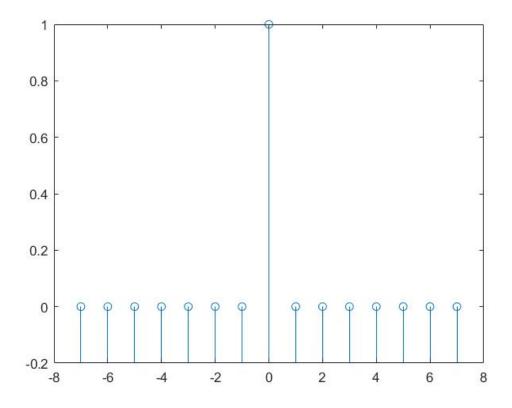
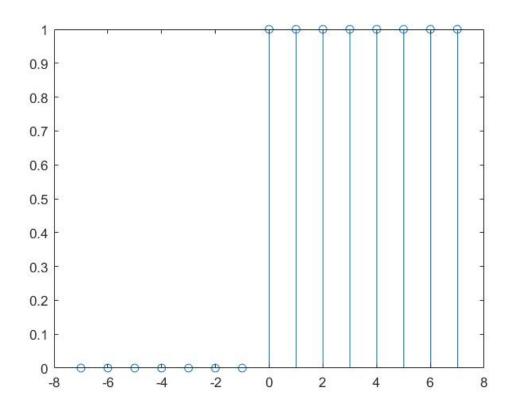
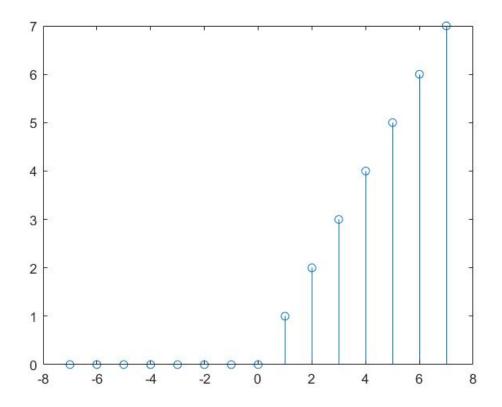
Taskl. (a) . Fs = 10,0006 \$ 1666.7 HZ. " 1000 7 Fs -, aliusing occur. (b) frequency = Fs = 833,3 Hz. (c) prevent aliasing need. 1000 = Es FSZ2000. : ZOOOHZ. is sufficient to prevent Tack 2 (a). X(41) = 0 T(ti) = sin(T)=0 x(t3)=Sin(22)20 T(4) = SM (32) 20 Tits) = sin (42) =0. (annot be recon structed to original Signal. (b). X(ti)=0 X(ts)=sih(2)=1 X(t3)= Sin(T) 70 X(to) = Sn(3/2)=-1 also cannot be reconstructed to x(ts) = sin(22) =0. original signal. it can present some other signal having she same trequency.



>> ex_2_main task







task 6

A3 =

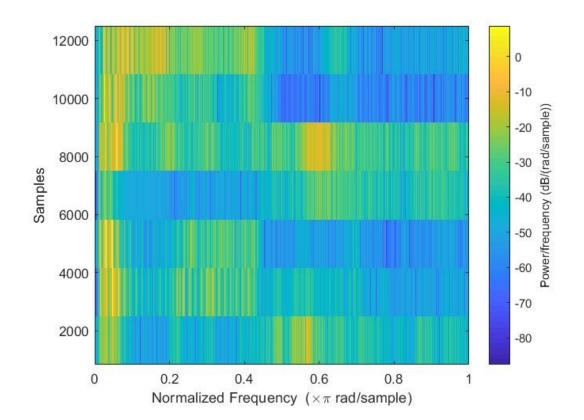
1 to 9 col

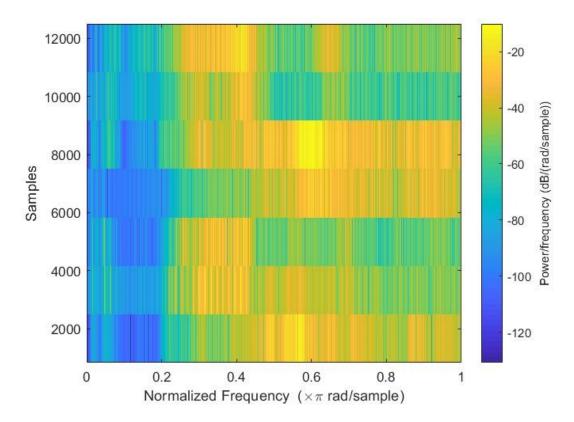
	1	8	27	64	125	216
343	512	729				
	1331	1728	2197	2744	3375	4096
4913	5832	2 6859				
	9261	10648	12167	13824	15625	17576
19683	219	52 24389				
	29791	32768	35937	39304	42875	46656
50653	548	72 59319				
	68921	74088	79507	85184	91125	97336
103823	110	592 117649)			
	132651	140608	148877	157464	166375	175616
185193	195	112 205379)			
226981		238328	250047	262144	274625	287496
300763	314	432 328509)			
357911		373248	389017	405224	421875	438976
456533	474	552 493039)			

		551368 704969	571787	592704	6.	14125	636056
		704909	804357	830584	8	57375	884736
912673	941192	970299					
10 col							
100	00						
800							
2700							
6400 12500							
21600							
34300							
51200	00						
72900	00						
100000	00						
B =							
D —							
0.9189	0.5179	0.9668	0.6335	0.8757	0.7635	0.2260	0.6917
0.5437 0	.6752						
	0.2457	0.6192	0.9861	0.6352	0.0489	0.3610	0.8805
0.3146 0							
0.7021		0.1653	0.2072	0.0973	0.7259	0.3246	0.9245
0.3820 0	.3403 0.6505	0.8262	0.7571	0.9084	0.7013	0.0836	0.0813
0.7915 0		0.0202	0.7371	0.3004	0.7015	0.0000	0.0013
		0.6557	0.8863	0.0350	0.4589	0.5127	0.4827
0.8392 0	.1715						
0.2515	0.8611	0.5465	0.4722	0.0397	0.5823	0.8329	0.1283
0.6802 0							
		0.2513	0.1589	0.9886	0.3391	0.9046	0.2529
0.4169 0		0.0402	0.0100	0.6060	0.1706	0.7226	0.0040
0.4721		0.0402	0.0109	0.6862	0.1706	0.7236	0.8840
		0.2334	0.4765	0.3767	0.3992	0.3830	0.1963
0.2141 0							
0.2790	0.2565	0.3611	0.1163	0.5043	0.9198	0.2980	0.1214
0.6173 0	.2368						

1.0000 -0.0000	-0.0000	-0.0000	-0.0000	0.0000	-0.0000	0.0000	
-0.0000 0.0000							
0.0000 1.0000	-0.0000	-0.0000	-0.0000	0.0000	-0.0000	0.0000	
-0.0000 0.0000							
0.0000 -0.0000	1.0000	-0.0000	-0.0000	0.0000	-0.0000	0.0000	
-0.0000 0.0000							
0.0000 -0.0000	-0.0000	1.0000	-0.0000	0.0000	-0.0000	0.0000	
-0.0000 0.0000							
0.0000 -0.0000	-0.0000	-0.0000	1.0000	0.0000	-0.0000	0.0000	
-0.0000 0.0000							
0.0000 -0.0000	0.0000	-0.0000	-0.0000	1.0000	-0.0000	0.0000	
-0.0000 0.0000							
0.0000 -0.0000	-0.0000	-0.0000	-0.0000	0.0000	1.0000	0.0000	
-0.0000 0.0000							
0.0000 -0.0000	-0.0000	-0.0000	0.0000	0.0000	-0.0000	1.0000	
-0.0000 0.0000							
0.0000 -0.0000	-0.0000	-0.0000	-0.0000	0.0000	-0.0000	0.0000	
1.0000 0.0000							
0.0000 -0.0000	-0.0000	-0.0000	-0.0000	0.0000	-0.0000	0.0000	
-0.0000 1.0000							

task 7





task 8
aliasing occur
task 9
task 10
>>