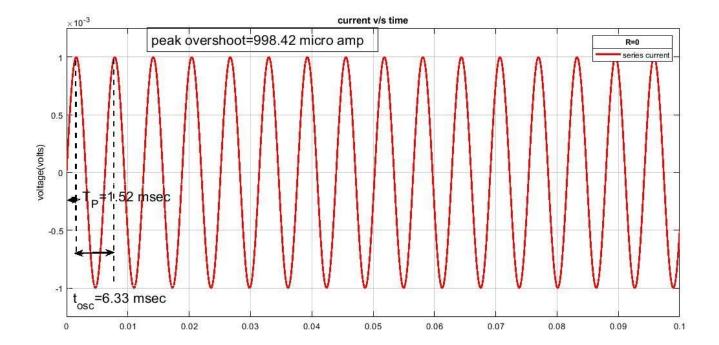
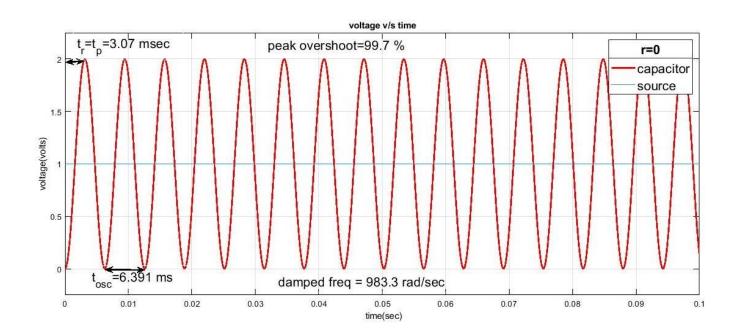
NAME: AVINASH SAROJ ENTRY NUMBER: JID202552 ASSIGNMENT NO.: 2

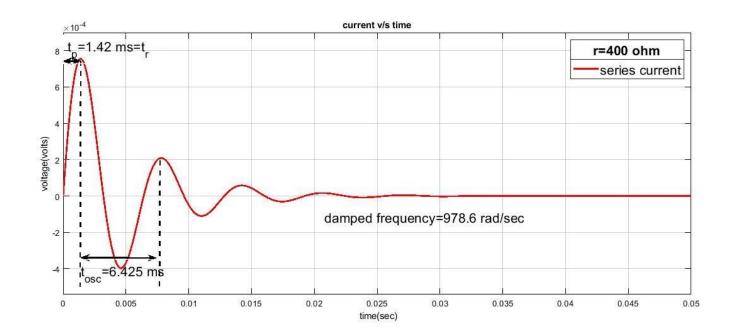
CASE 1: $R=0 \; OHM \;\; , \;\; L=1H \quad , C=1 \; MICROFARAD \quad , \;\; W_n=1000 \; rad/sec \quad , \; \zeta=0$

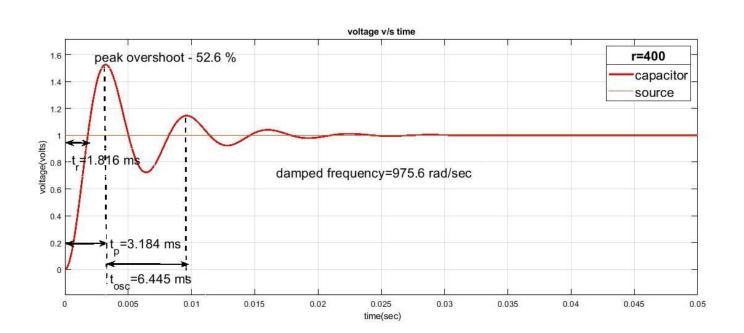




CASE 2:

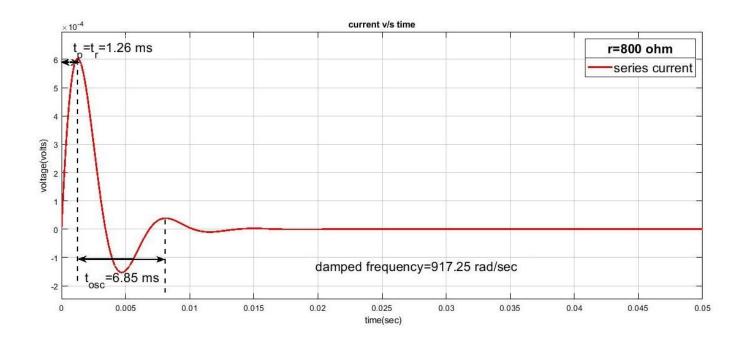
R=400 OHM , L= 1H , C= 1 MICROFARAD , W_n =1000 rad/sec , ζ =0.2

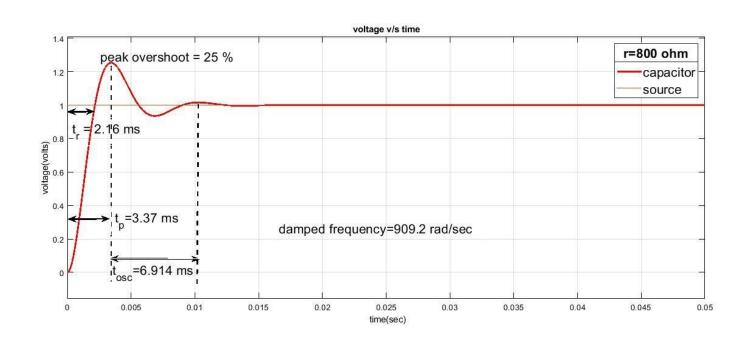




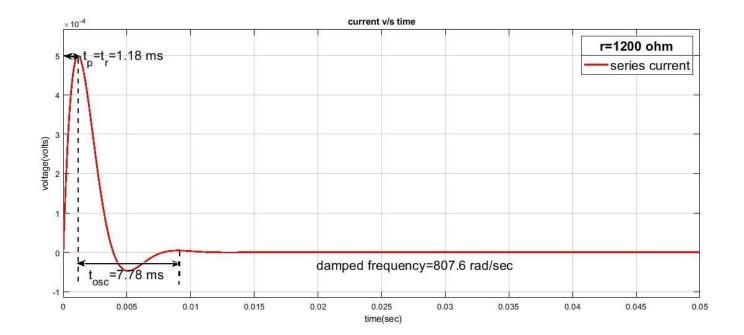
CASE 3:

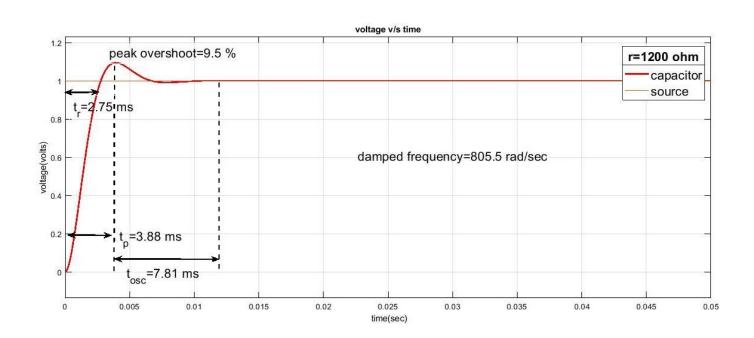
<code>R=800</code> <code>OHM</code> , <code>L=1H</code> , <code>C=1</code> <code>MICROFARAD</code> , <code>Wn=1000</code> <code>rad/sec</code> , $\zeta = 0.4$





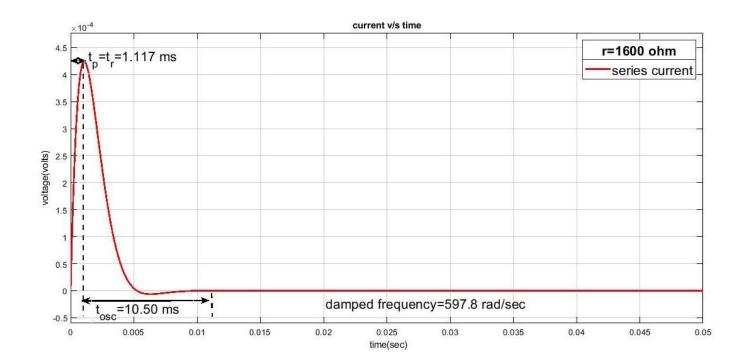
CASE 4: $R=1200 \; OHM \;\; , \;\; L=1H \;\; , C=1 \; MICROFARAD \;\; , \;\; W_n=1000 \; rad/sec \;\; , \;\; \zeta=0.6$

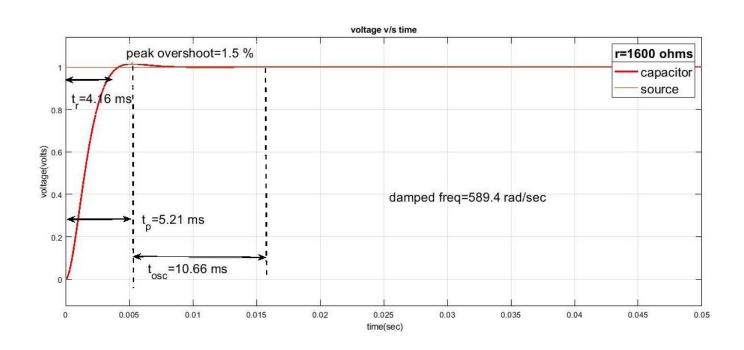




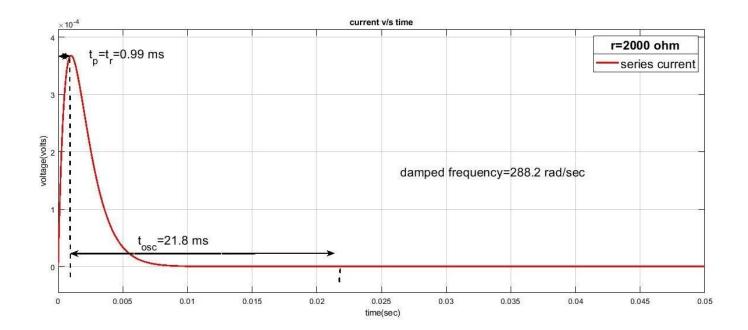
CASE 5:

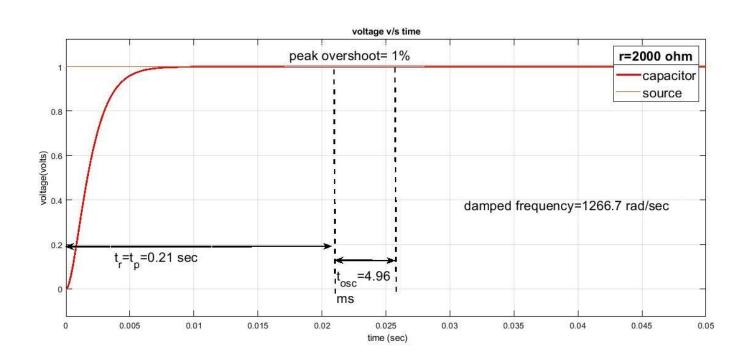
R=1600 OHM , L= 1H , C= 1 MICROFARAD , W_n =1000 rad/sec , ζ =0.8





CASE 6: $R=2000 \; OHM \;\; , \;\; L=1H \;\; , C=1 \; MICROFARAD \;\; , \;\; W_n=1000 \; rad/sec \;\; , \;\; \zeta=1$





s. no.	wn	ζ	rise	peak	peak time	oscillation	damped
			time(ms)	overshoot(%)	(ms)	time(ms)	freq(rad/sec)
			I,V	V	I,V	I,V	I,V
1	1000	0	1.52, 3.07	99.7	1.52, 3.07	6.33, 6.39	983.3 , 987.2
2	1000	0.2	1.42, 1.18	52.6	1.42, 3.18	6.24, 6.44	978.6 , 975.6
3	1000	0.4	1.26, 2.16	25	1.26, 3.37	6.85, 6.91	917.2, 909.2
4	1000	0.6	1.18, 2.75	9.5	1.18, 3.88	7.78, 7.81	807.6, 805.5
5	1000	0.8	1.11, 4.1	1.5	1.11, 5.2	10.5, 10.6	597.8, 589.4
6	1000	1	0.99, 0.21	1	0.99, 0.21	21.8 , 4.96	288.2,
							1266.7
7							