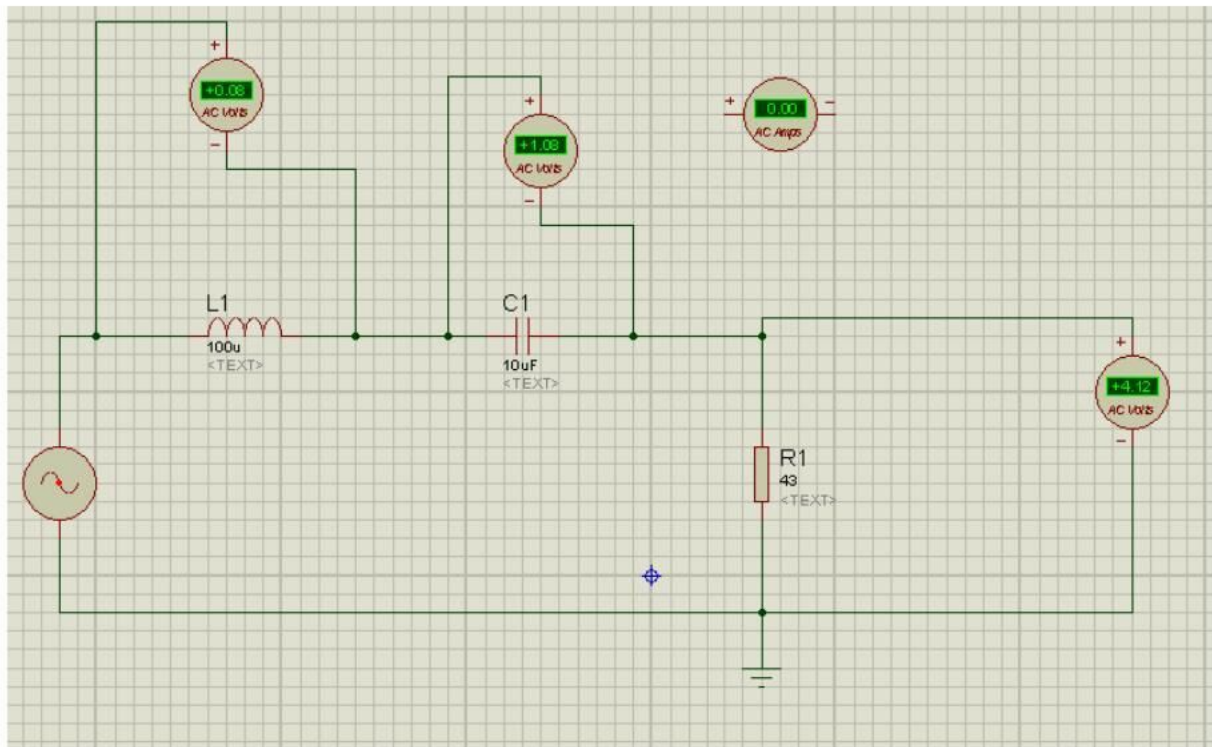
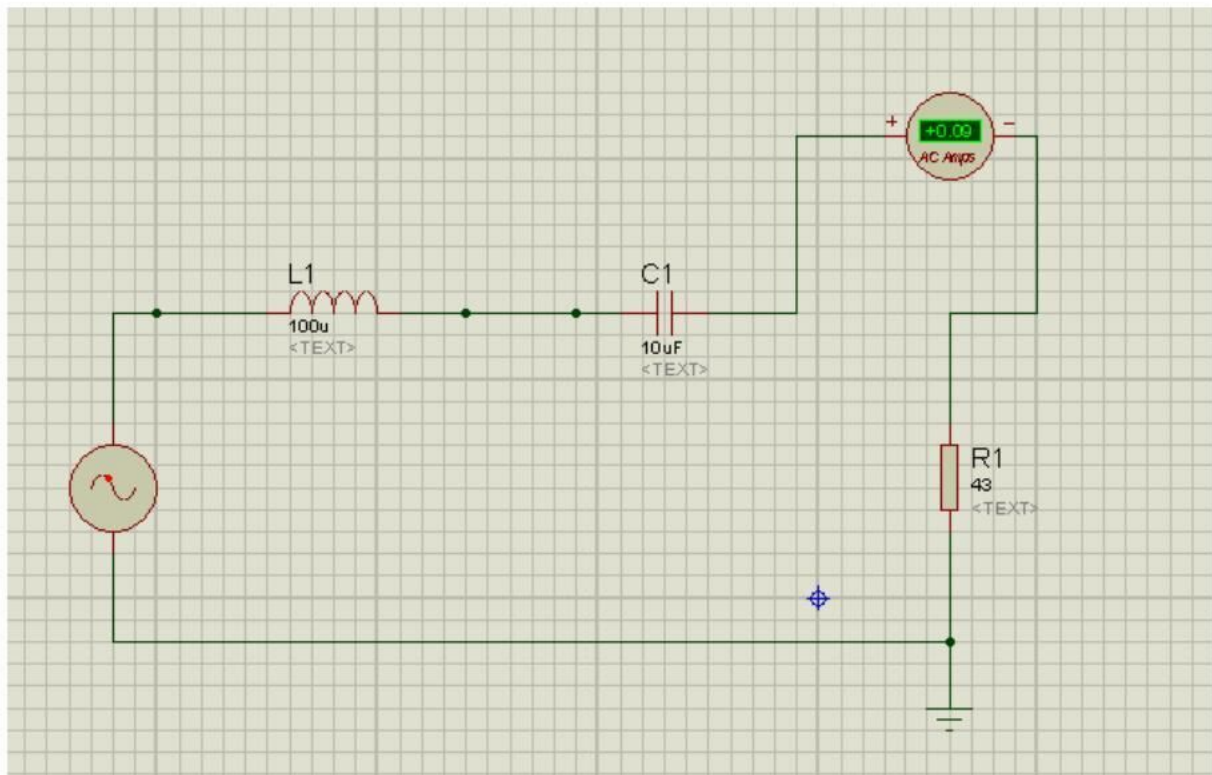


1-a)

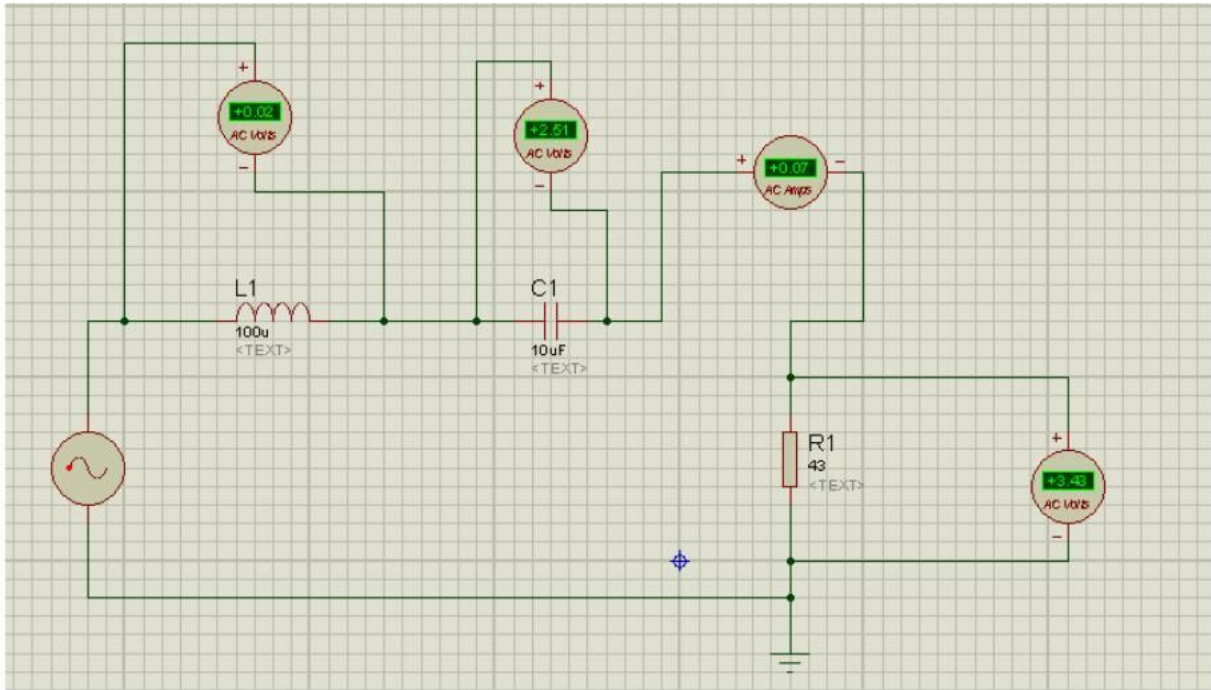


$$V_R=4.12V, V_L=0.08, V_C=1.08$$



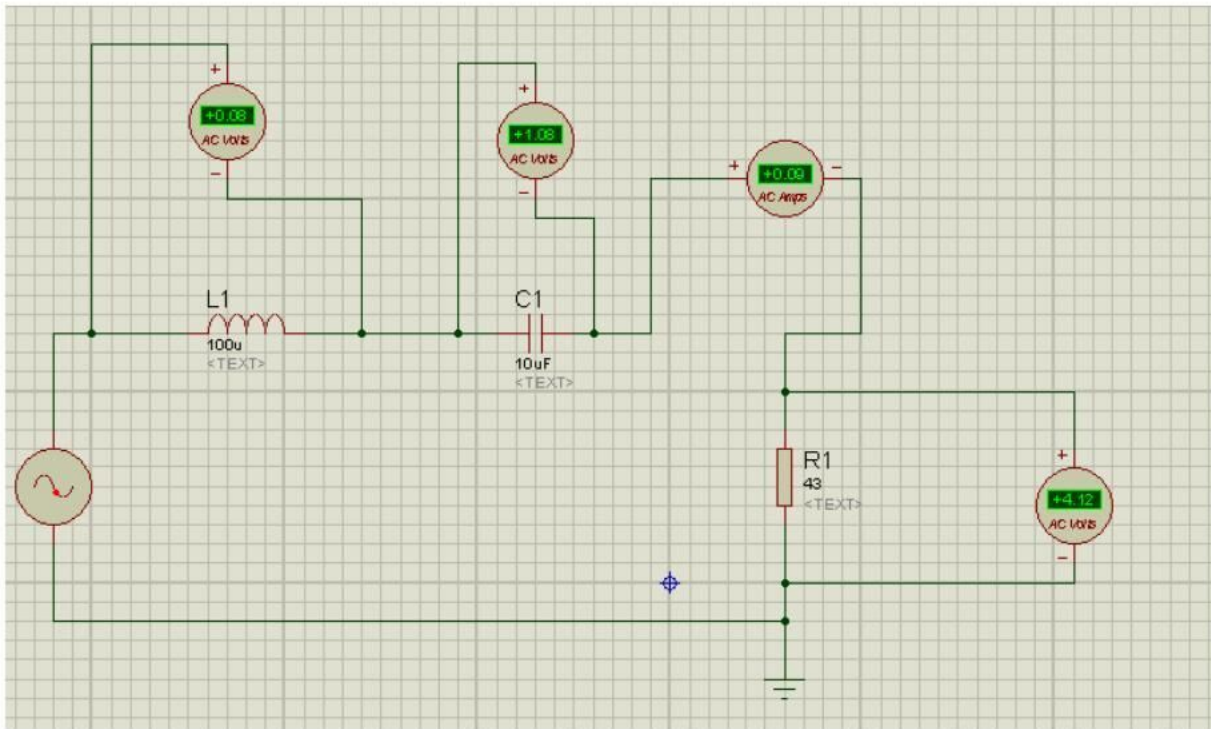
$$I = 0.09 A$$

1-b) 1) $f=0.5 \text{ kHz}$



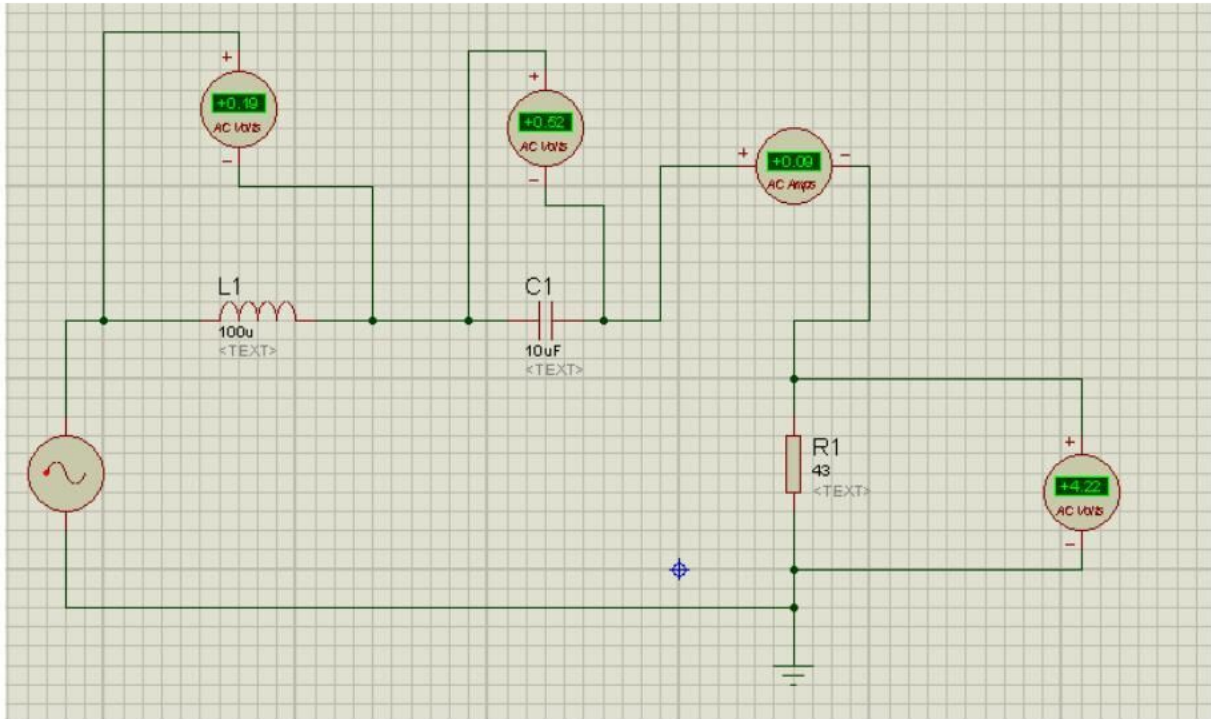
$$V_R=3.43V, V_C=2.51, V_L=0.02, I=0.07 \text{ A}$$

2) $f=1.4 \text{ kHz}$



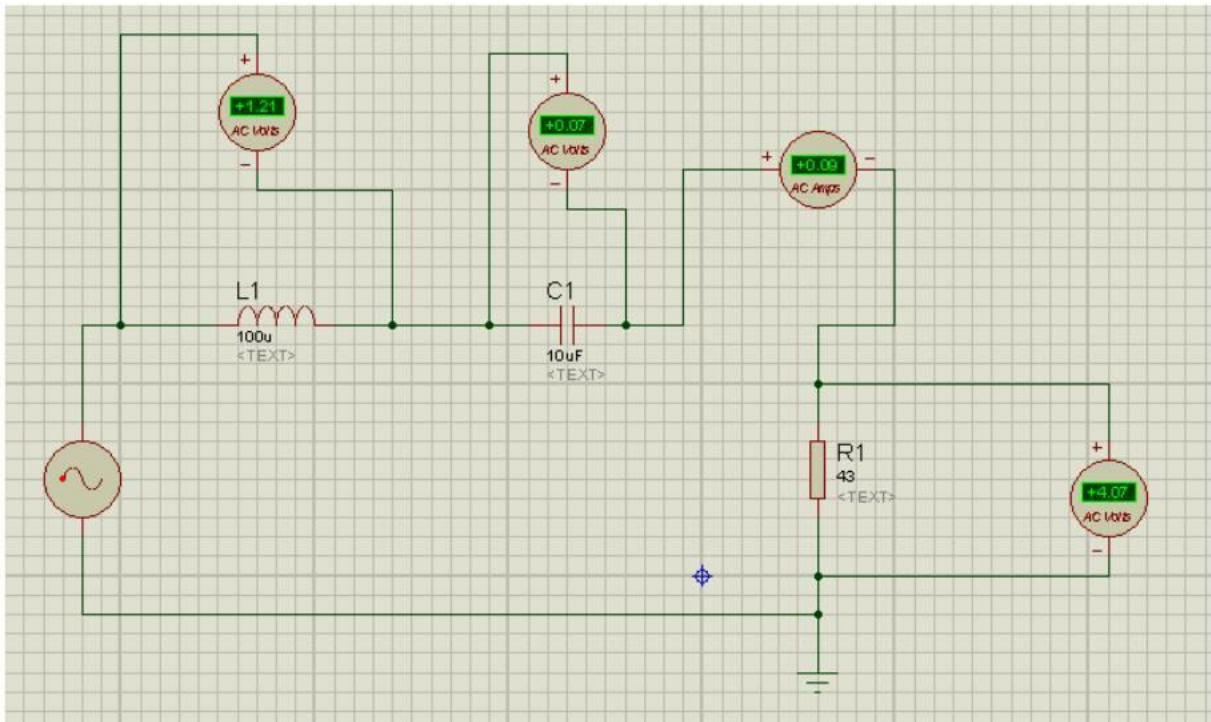
$$V_R=4.12 \text{ V}, V_C=1.08 \text{ V}, V_L=0.08 \text{ V}, I=0.09 \text{ A}$$

3) $f=3 \text{ kHz}$



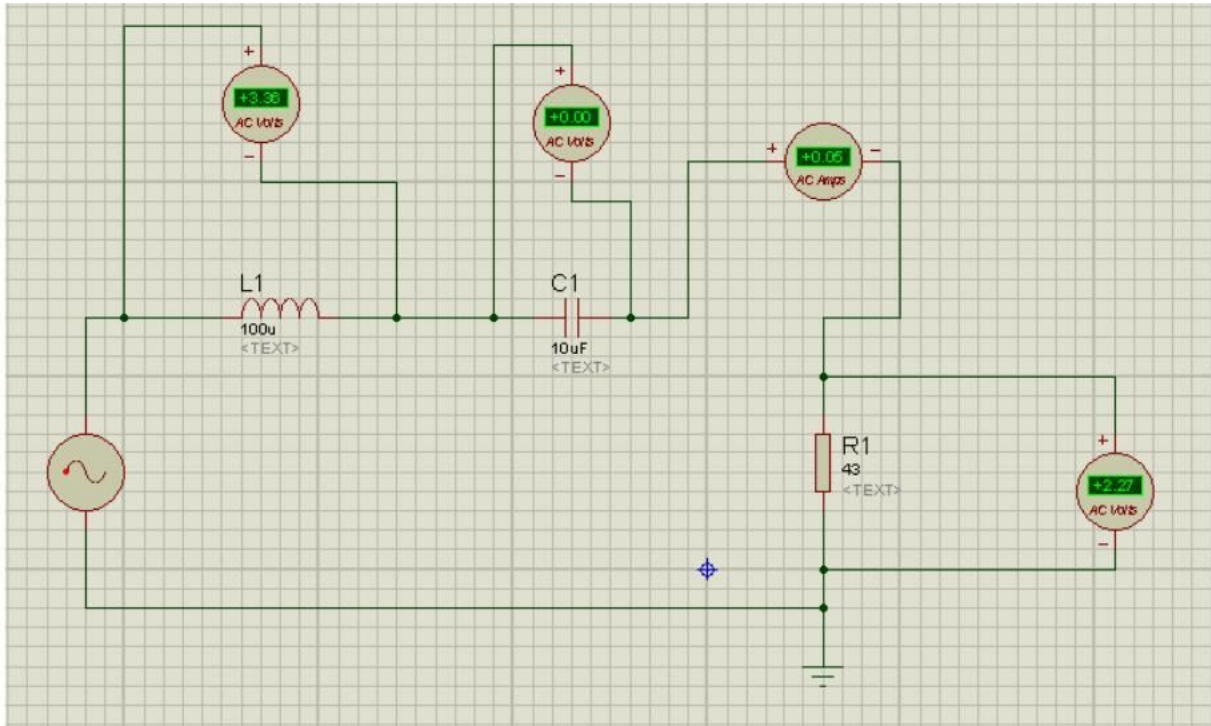
$V_R=4.22 \text{ V}$, $V_C=0.52 \text{ V}$, $V_L=0.19 \text{ V}$, $I=0.09 \text{ A}$

4) $f=20 \text{ kHz}$



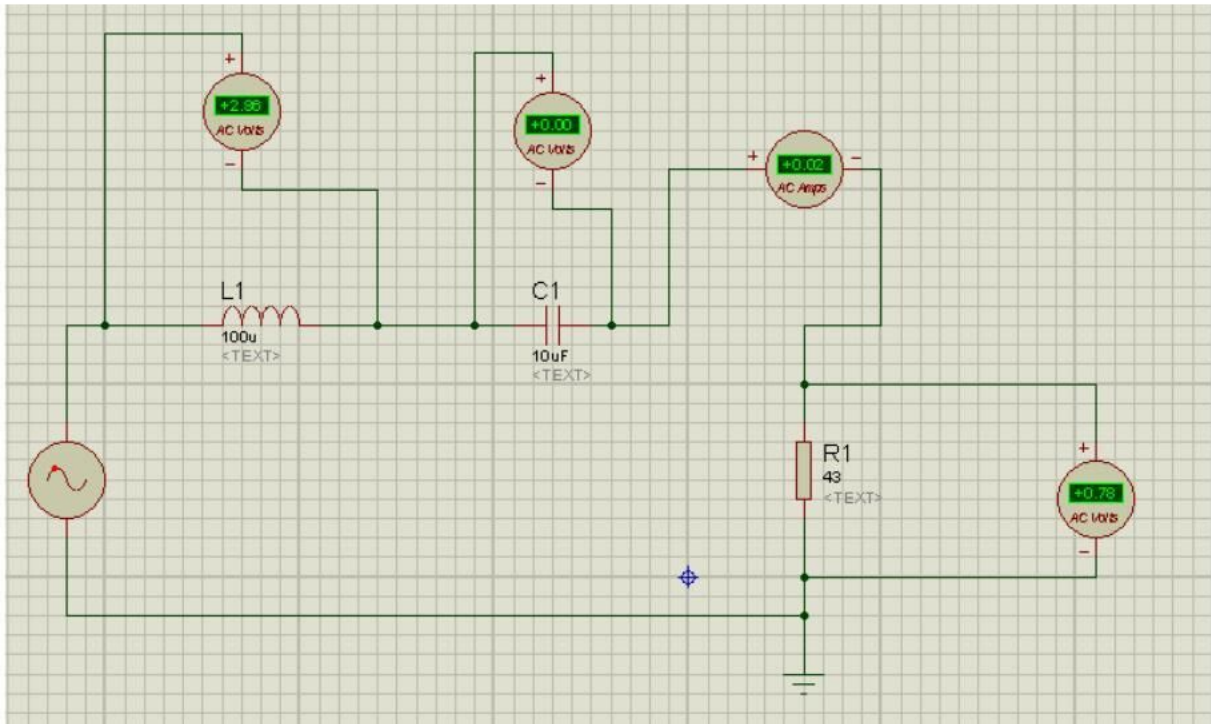
$V_R=4.07 \text{ V}$, $V_C=0.07 \text{ V}$, $V_L=1.21 \text{ V}$, $I=0.09 \text{ A}$

5) $f=100\text{kHz}$



$V_R=2.27\text{ V}$, $V_C=0.00\text{ V}$, $V_L=3.36\text{ V}$, $I=0.05\text{ A}$

6) $f=250\text{kHz}$



$V_R=0.78\text{ V}$, $V_C=0.00\text{ V}$, $V_L=2.86\text{ V}$, $I=0.02\text{ A}$