Team Information

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Submitted To:

Dr/Hassan Mostafa

- CAD (Computer Aided Design) tool to simulate simple AC circuits that contains only (independent voltage sources, independent current sources, resistors, capacitors, and inductors).
- It can solve ANY NUMBER OF NODES & ANY NUMBER OF LOOPS ...
- It shows the voltages at all nodes and the currents in all branches
- It's required to Enter Your "Circuit NetList" From a Text File ...

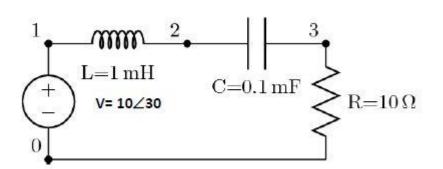
Some Instructions to be able to deal easily with the Tool and solve your circuit successfully:

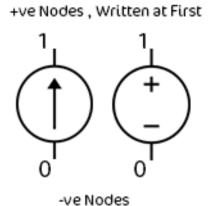
- I- Enter your circuit Netlist file name without writing ".txt"
- **2-** At the beginning of The Netlist , you must write ω (Omega) as input at this form " w Value " ,,, w is a small Letter & Value may be any +num.
- **3** Any Capacitor(C), Inductor(L) or Resistor(R) must be written as input at this form

	Туре	NodeO	Nodel	Value
For Example	Lì	1	2	0.001
	Cl	2	3	0.0001
	RI	3	0	10

4- Any Voltage (Vs) or Current (Is) Source must be written as input at this form

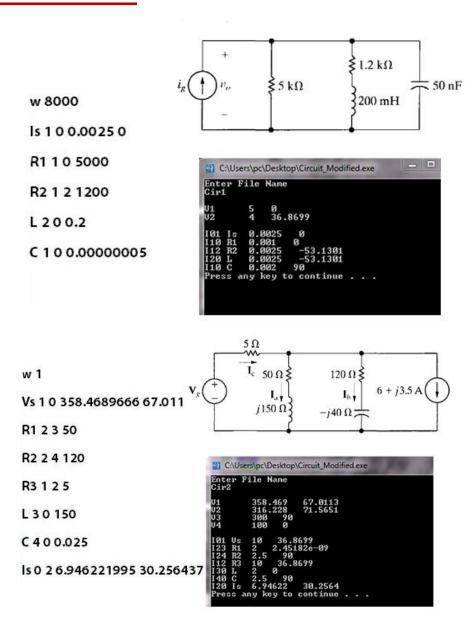
	Type	+Node	-Node	Magnitude	phase
For Example	Usl	1	0	10	30





- 5- All The Values Must be at SI Units (Henry, Farad, Ohm, Volt, Ampere)
- 6- it's assumed that U(0) = 0U
- **7-** The output will Be in the form of Magnitude and Phase
- 8- The Output may Be in The Form "e value " ,, just approximate it to O

Test Cases:



- Kindly Send Your Feedback & any questions to:
Ahmed.Afifi98@eng-st.cu.edu.eg

Thanks....