

AUDIT COURSE ELECTRONIC CIRCUITS 1: SIMULATION BASED STUDY

LAB 11

Kindly update your name and roll no, once this document is shared with you

Time slot to complete your work is **40 MINUTES**

Date: 7/9/2020

Kindly upload your schematic & waveform images here, every 10 minutes, indicating your progress and intention to completion of WORK within time slot allotted

Time slot allotted to you all for the completion of WEEK 6 DAY 1 is 40 MINUTES

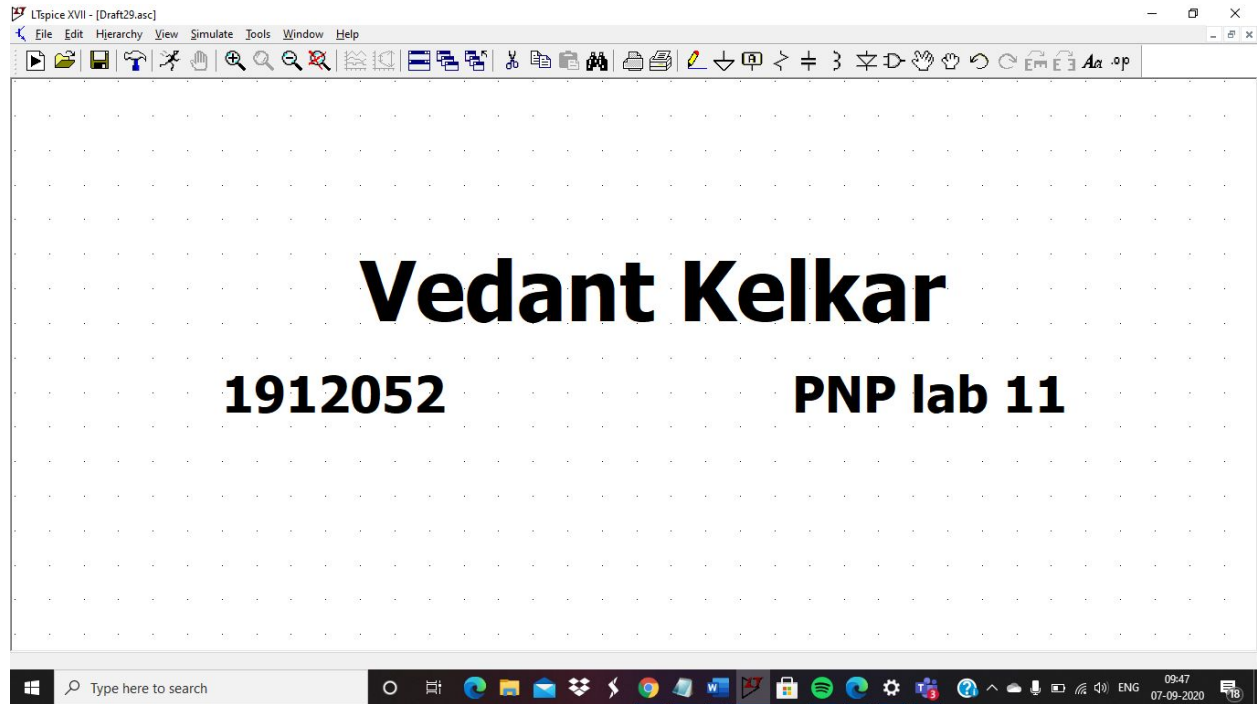
Kindly upload your work (only circuit schematic & waveform in LTSpice) in the shared google doc between this time slot only.

Follow these instruction strictly:

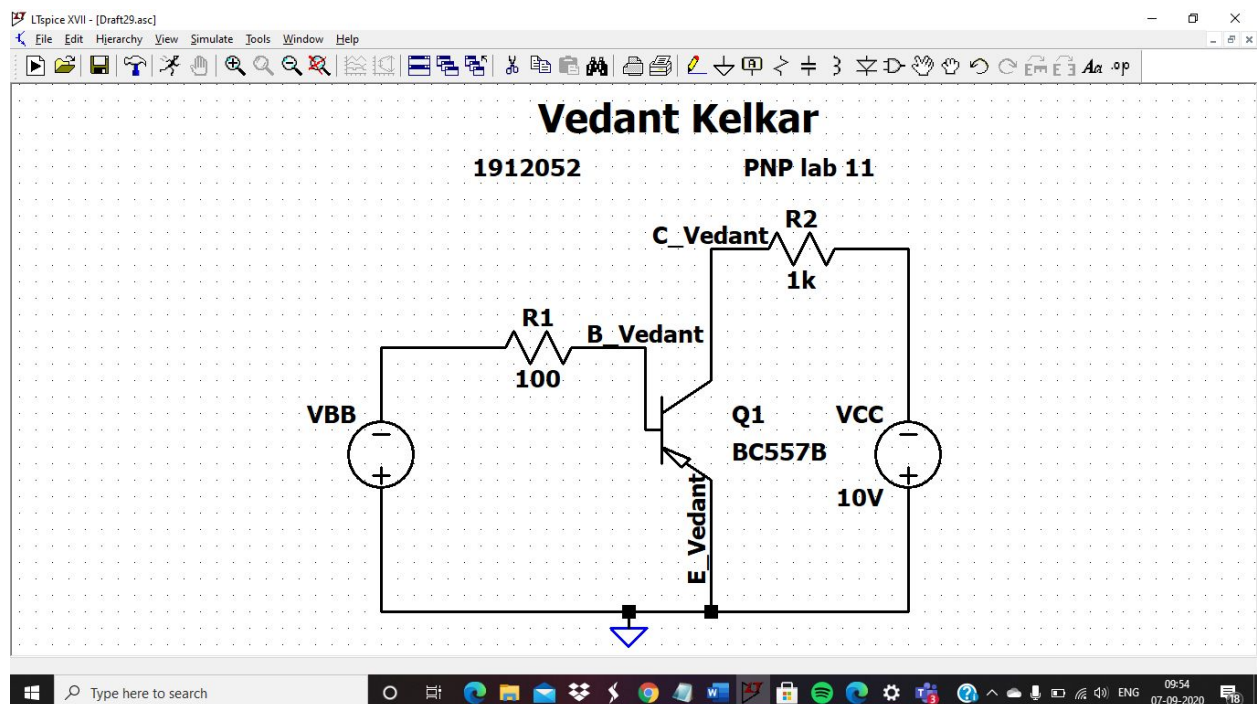
- 1, Start sharp ON TIME, by posting your name and roll no and **screenshot of your LT spice work screen (time and date MUST BE VISIBLE)**
2. Upload your work every 10 minutes, i.e LT spice work screen
3. This means you will upload LT spice work screen 4 times during this time slot.
4. Point 3 indicates your readiness and presences for completion of WEEK 6 DAY 1

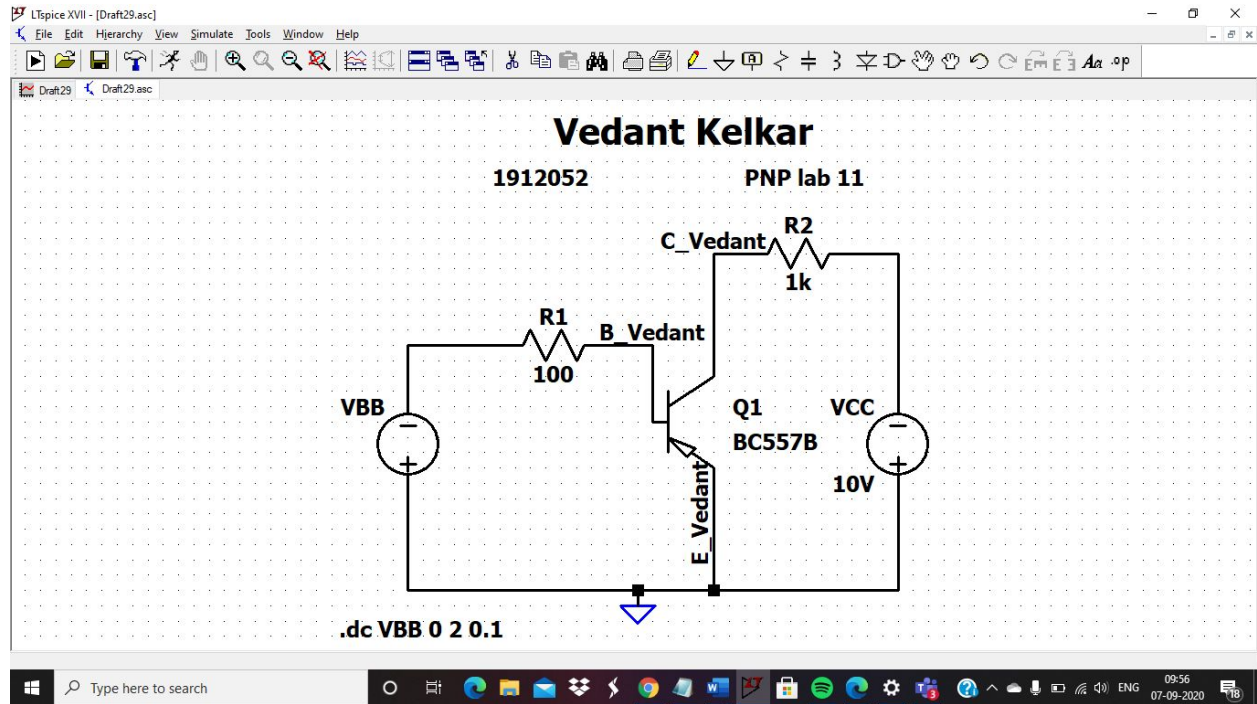
You are entitled for 1 CREDIT per Lab only if you follow above instruction to the details

STUDENTS WORK AREA STARTS HERE

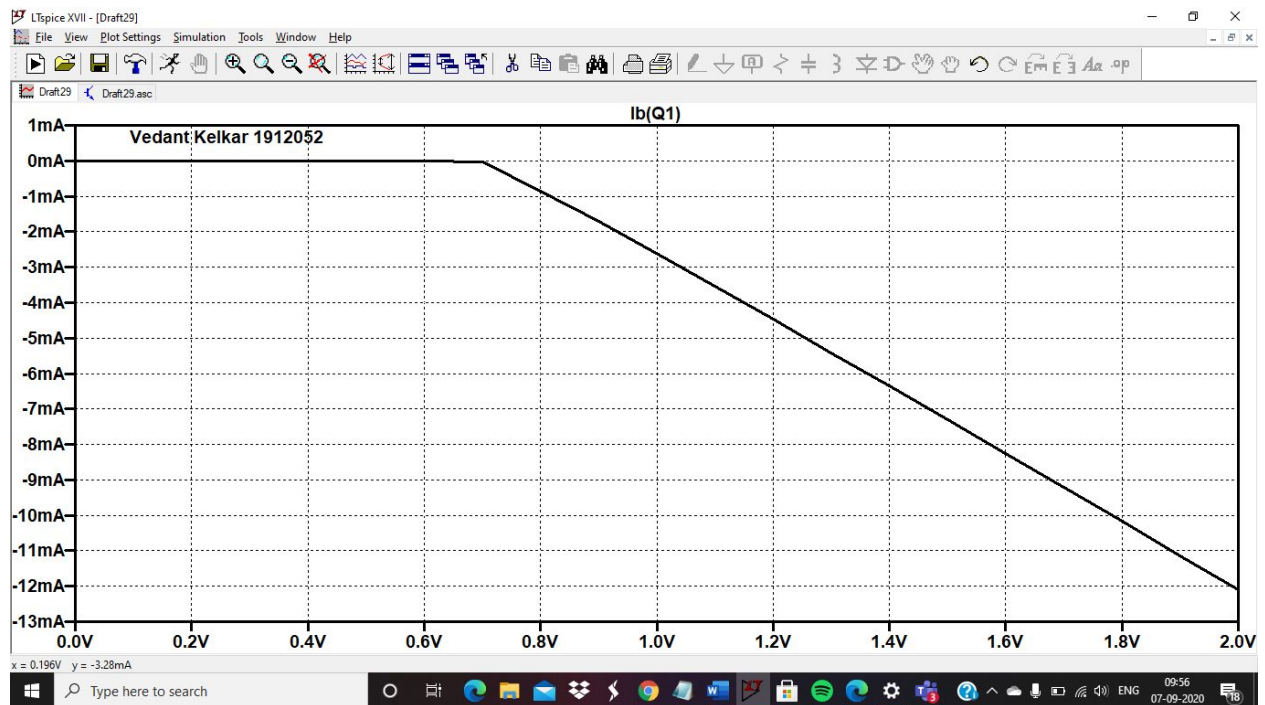


PNP INPUT CHARACTERISTICS common emitter

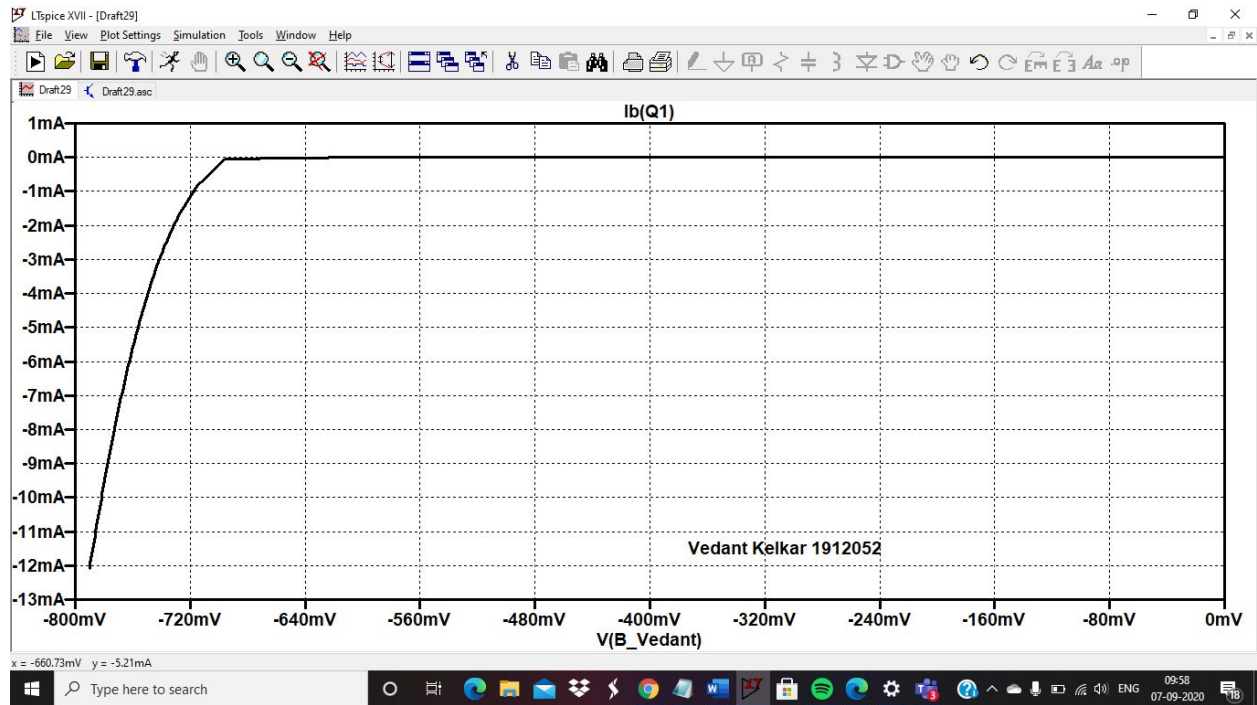




VBB vs Ib



VB vs Ib

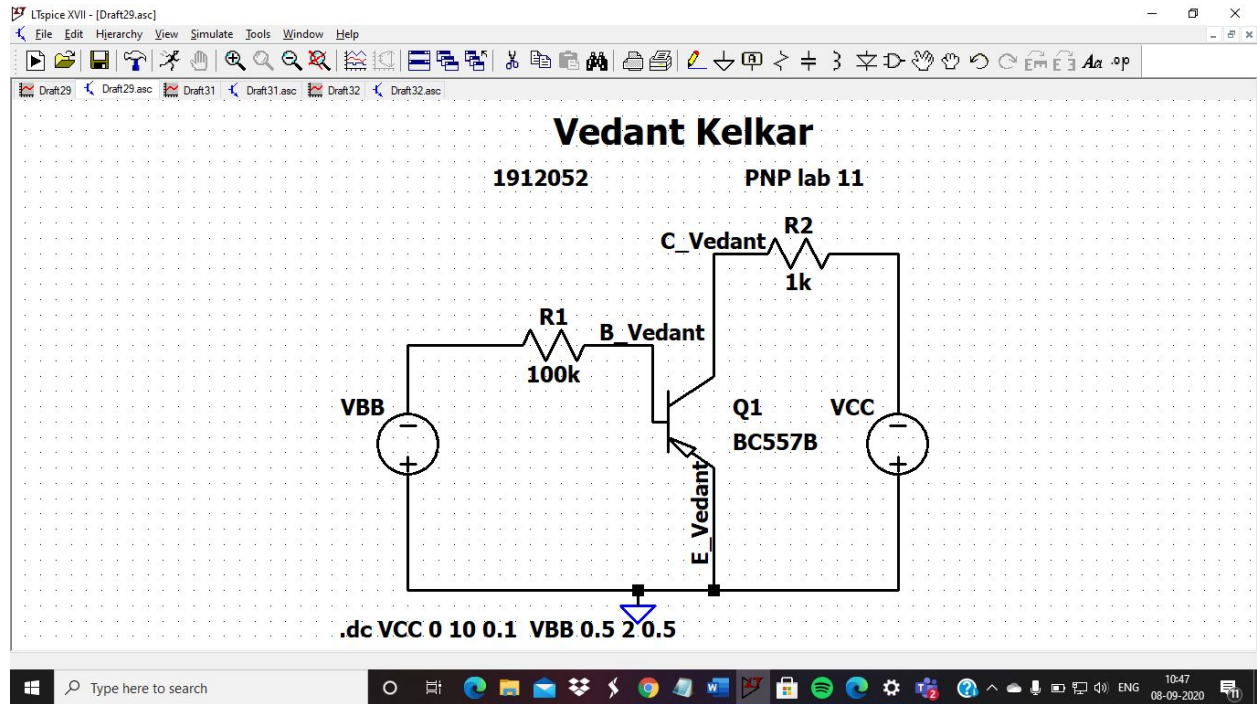


VB

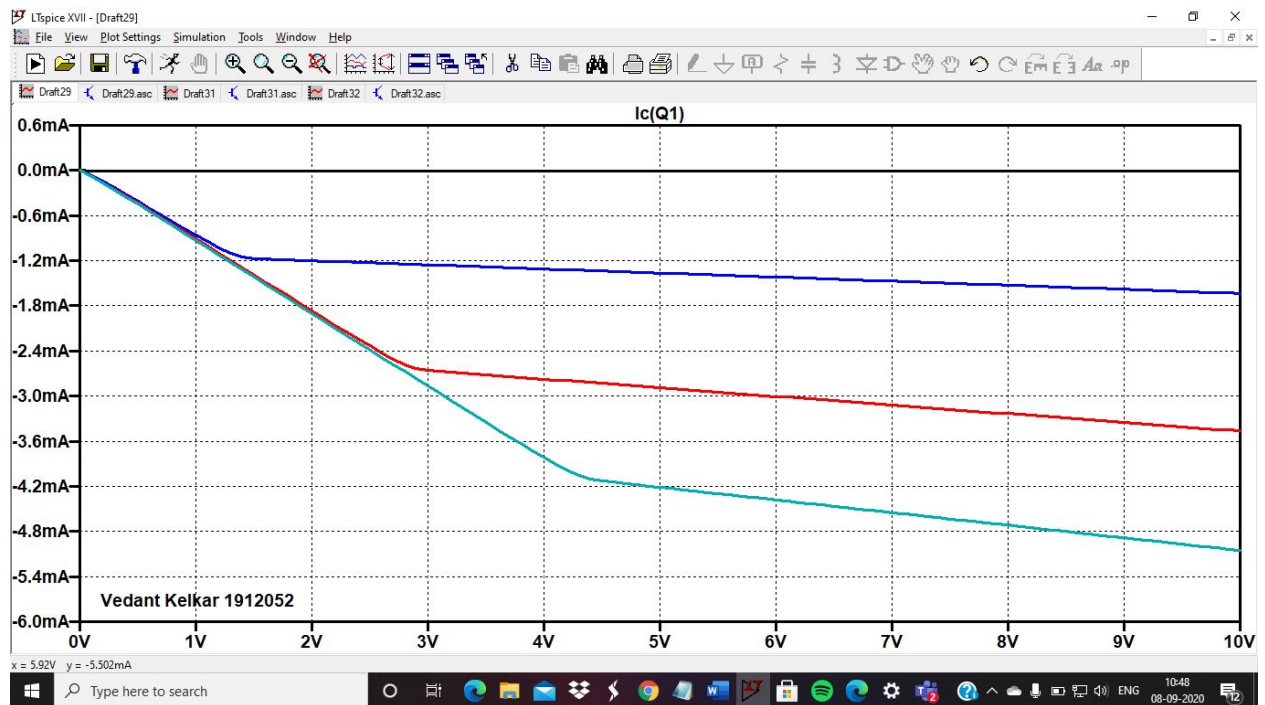
IB

0	0
200mV	7.6202 pA
400mV	-878.312 pA
500mV	-37.31 nA
580mV	634.77 nA
600mV	-1.223 uA
620mV	2.488 uA
640mV	-5.401 uA

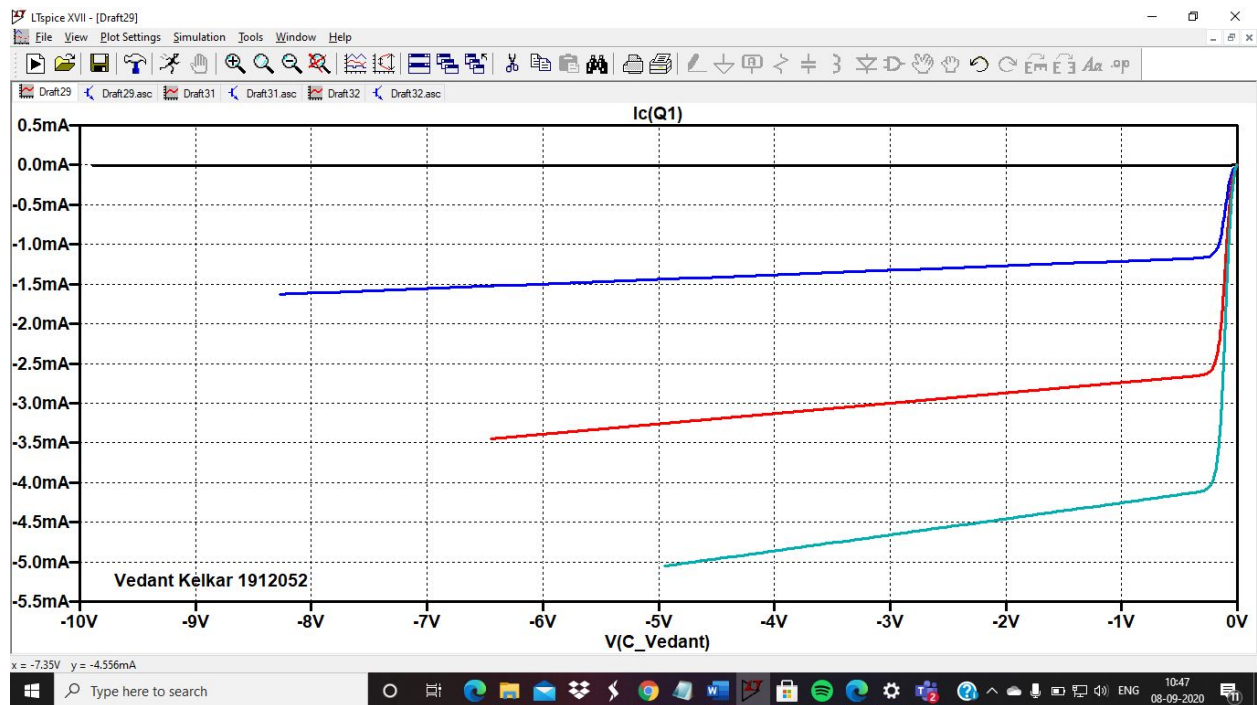
PNP OUTPUT CHARACTERISTICS common emitter



VCC vs Ic



VEC vs Ic



Vec	Ic
0	0
100mV	-0.518mA
200mV	-1.122mA
300mV	-1.157mA
500mV	-1.179mA
1V	-1.224mA
3V	-1.313mA
5V	-1.452mA
8V	-1.617mA

I HAVE MADE THE SUGGESTED CHANGES

Suggestions: Mention which characteristics and which configurations for above printscreens:

AC LAB 11 is approved with suggestions: Inderjit Singh Dhanjal