



East West University

Course Information

Course Title: Electrical Circuits

Course code: CSE251

Section: 6

Course Instructor: **Touhid Ahmed**

Senior Lecturer,

Department of Computer Science & Engineering

Student's Information

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ID: 2019-1-60-022

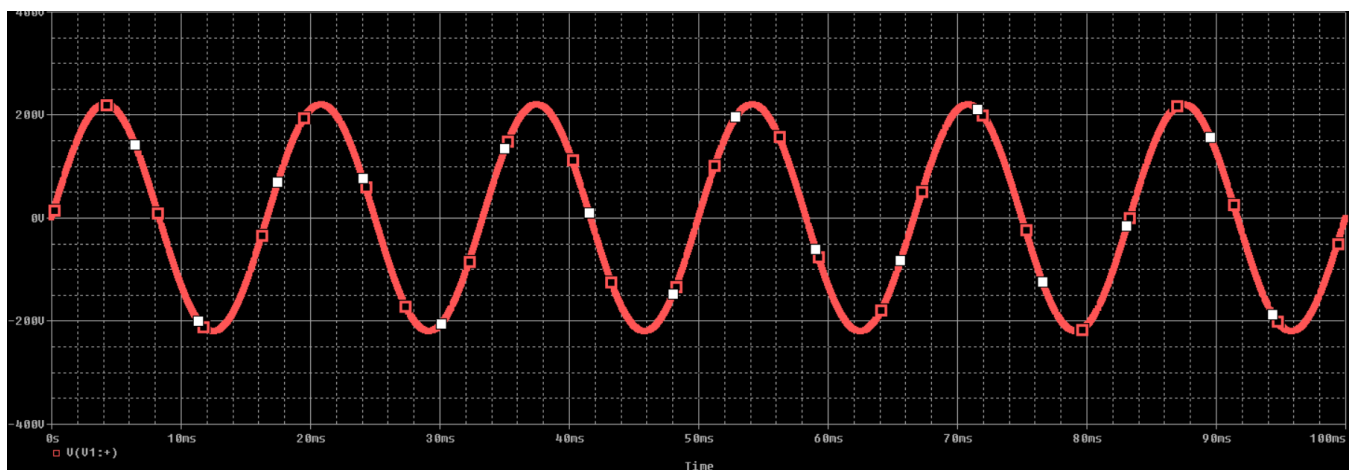
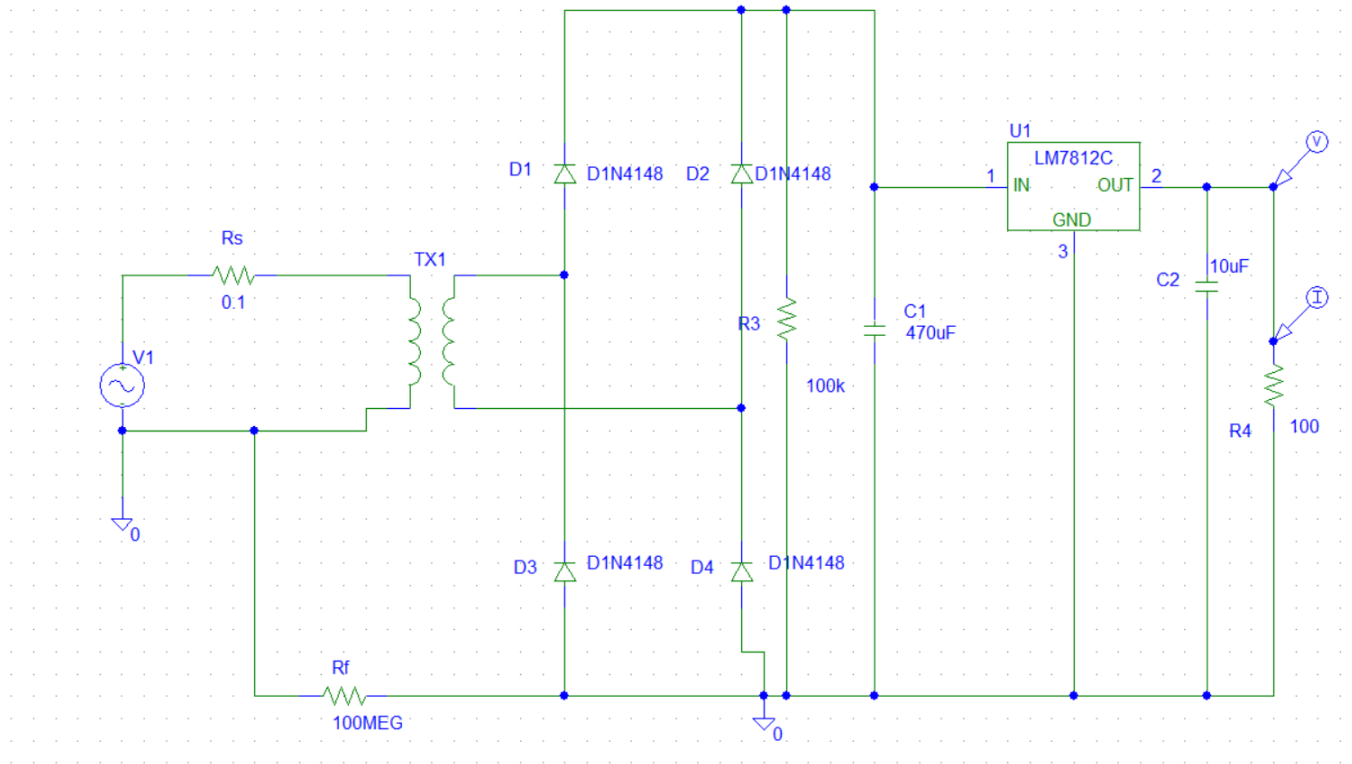
Department: Computer Science & Engineering

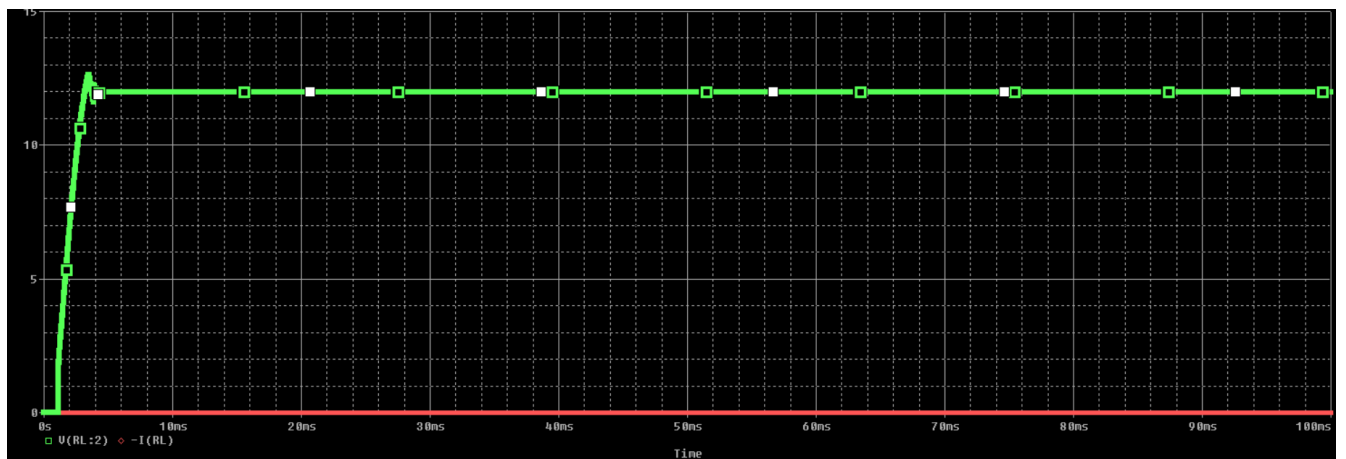
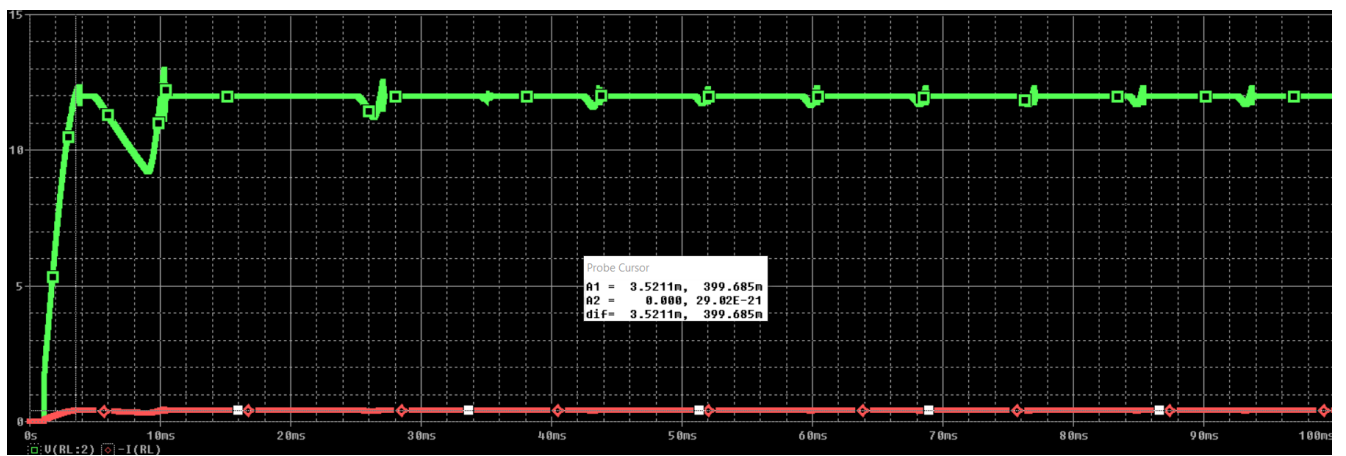
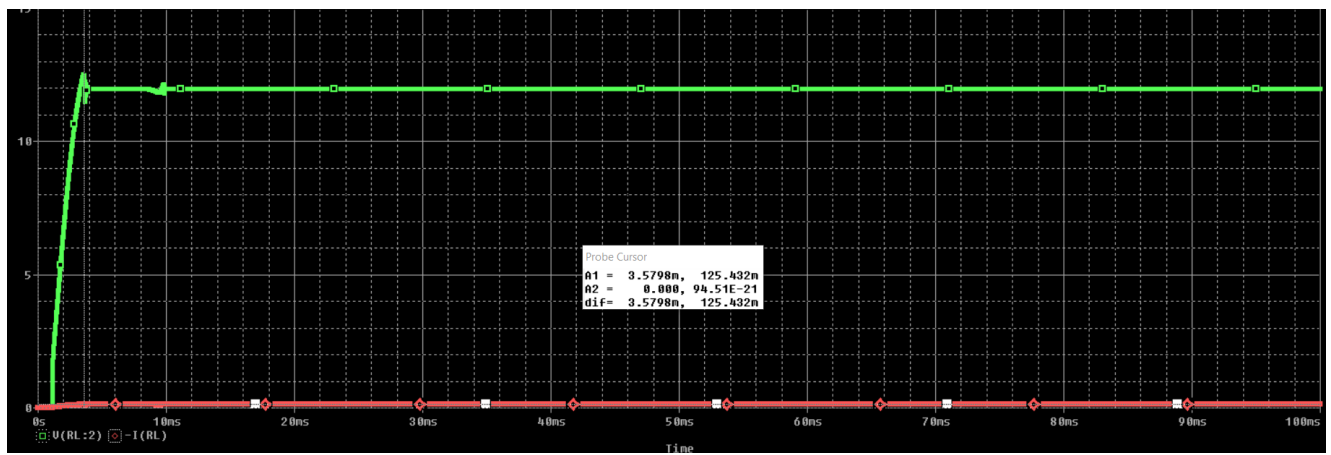
Semester: Fall 2020

Date of Submission: 12 January, 2021

Mini project

Circuit Figure:





Comment on the effect of changing RL on the performance:

In this simulation if we change RL value higher value to small value, we got better result then previous.

Purpose of diodes:

The four diodes which used in circuit to convert the output voltage across the transformer. The diodes are an essential part of the AC to DC conversion circuit by which we can make a bridge converter.

Purpose of transformer:

In the particular experiment a step-down transformer is being used to a high voltage such as 220V to a very low voltage. The ratio of coil might be very high like 16:9:1. So the voltage out forms the transformer became very low.

Purpose of R1 and C1:

As we want a DC voltage output as a linear step line so here the capacitor C1 used. And to get a good line the capacitor must be relaxed. But in software simulation it is not possible to relax a capacitor so that here we are using a resistor R1 to neutralize the capacitor.