Faculty of Engineering and Technology
Electrical and Computer Engineering Department

ENEE2102
CIRCUITS LAB

Student's name: Anas abedelhalim tomaizeh
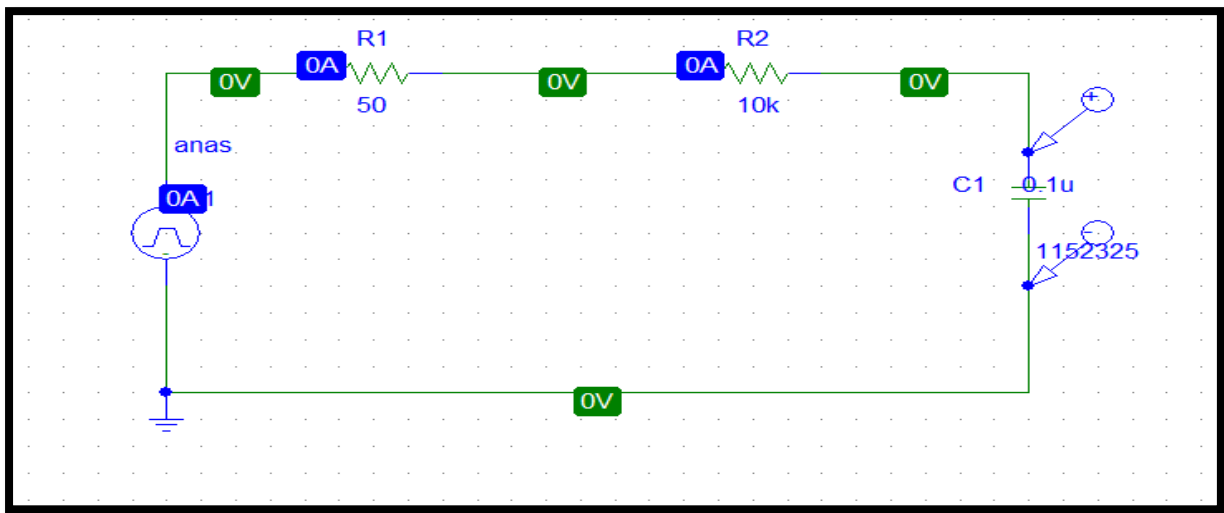
Student's number: 1152325

Pre lab exp#4
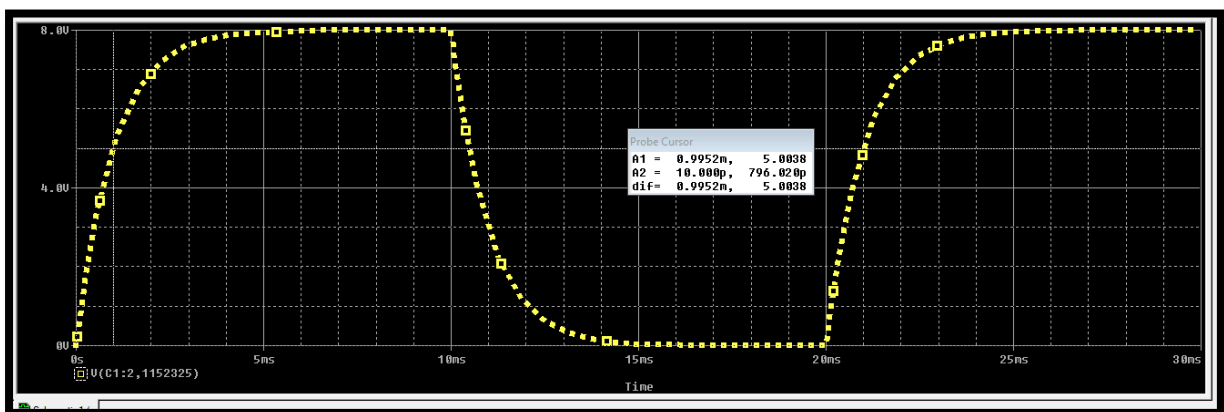
Date 11/10/2017

Eng.: Qais samara

Dr: Hakam shehada

Part one: step response for first order RC circuit:

The circuit:

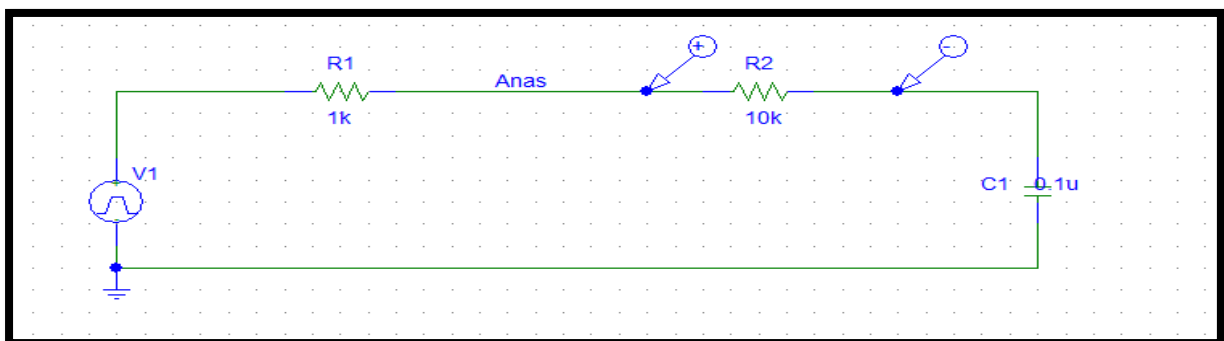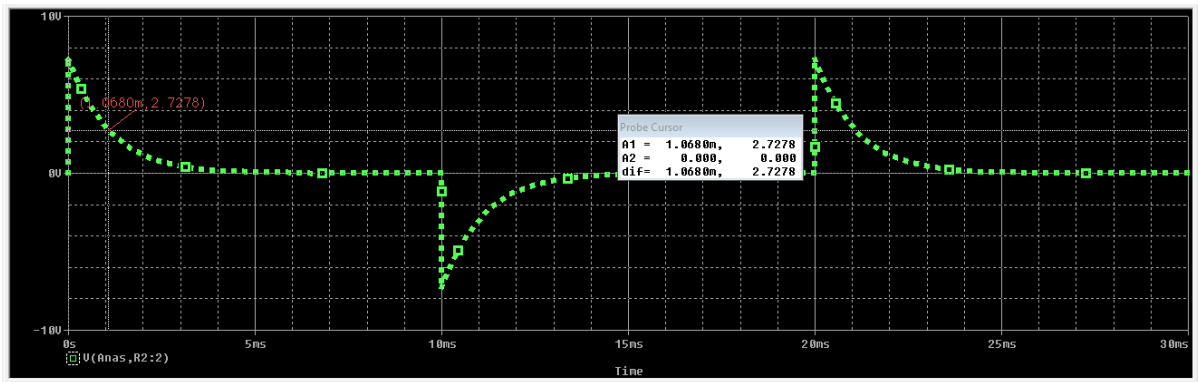**The result:**

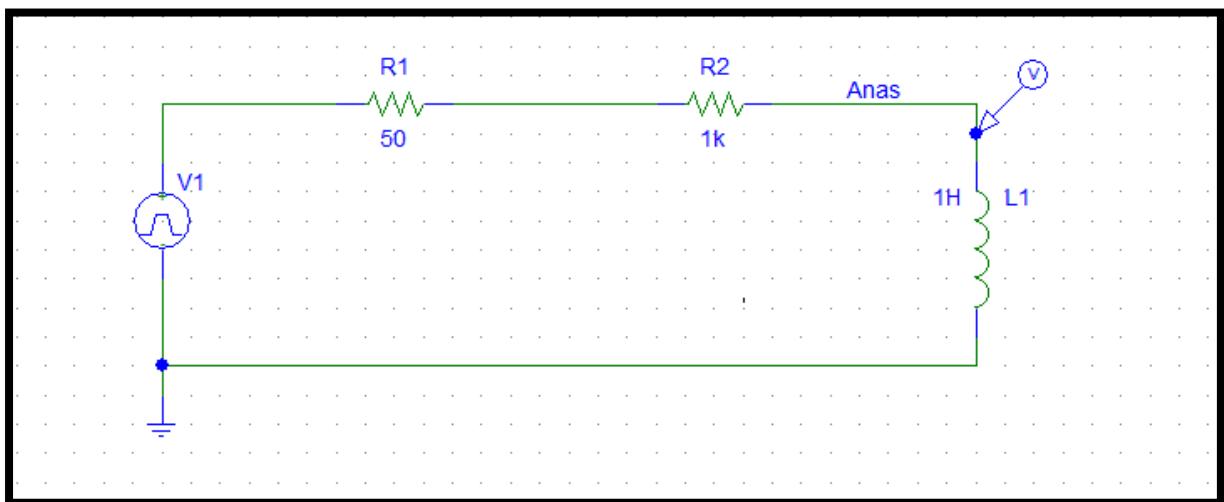*From the graph, shown above the value of time constant is 1ms.
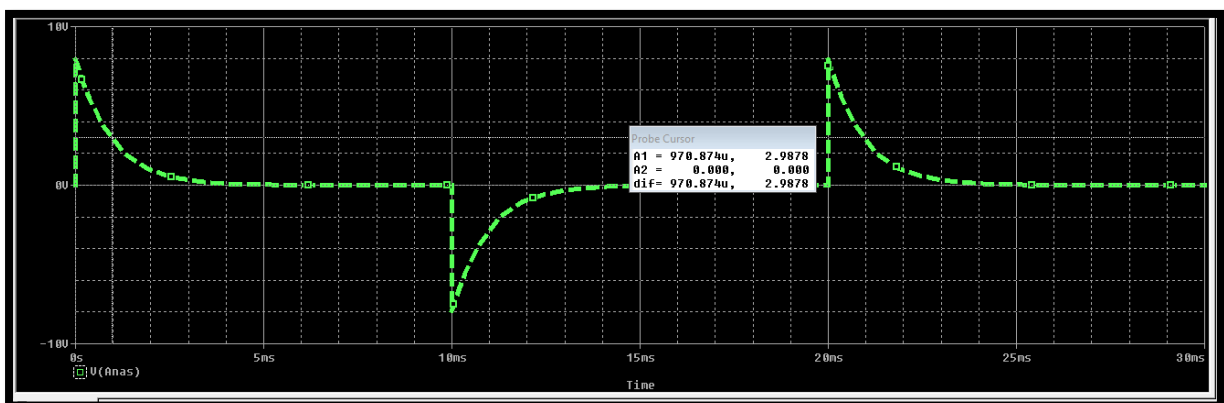
The circuit:

The result:

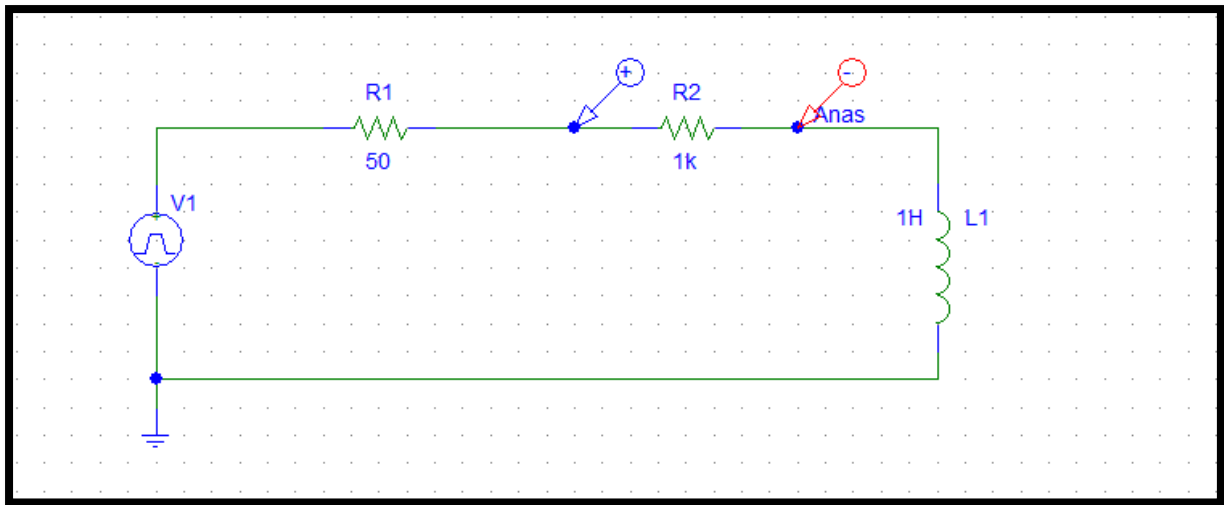## Part two: Step response of First-order RL circuit:
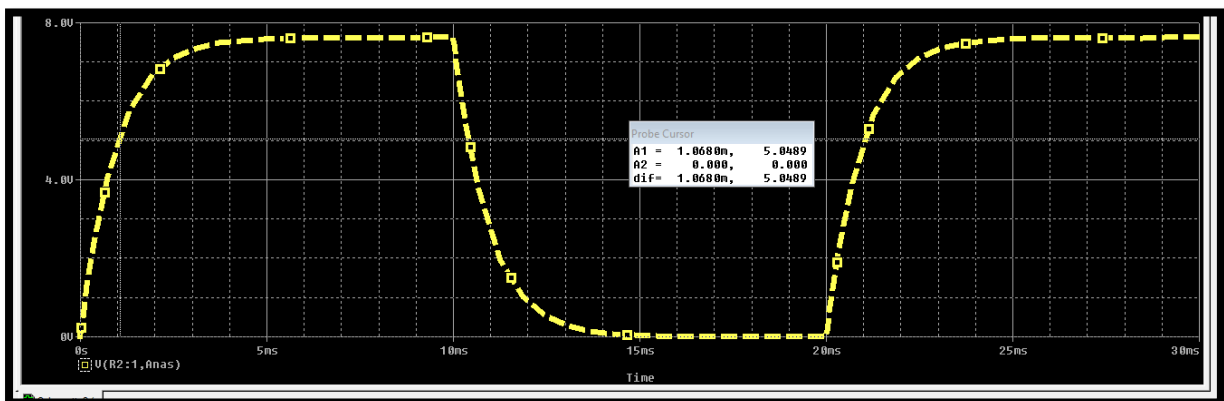
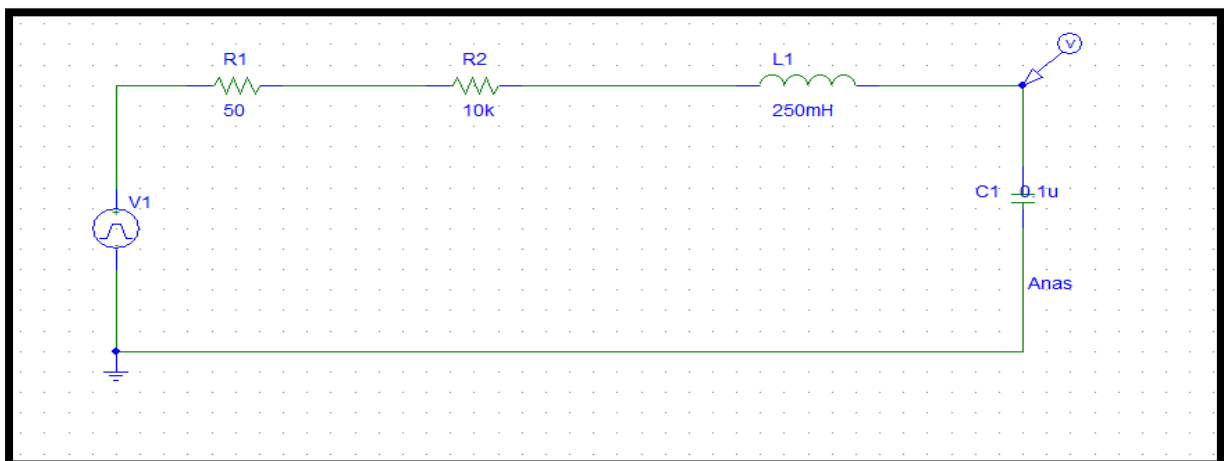### The circuit:

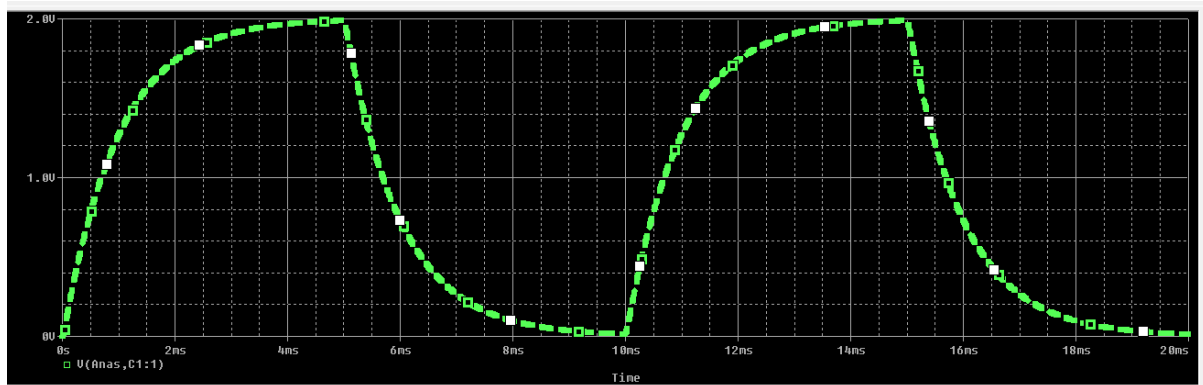
The result:

The circuit:

The result:

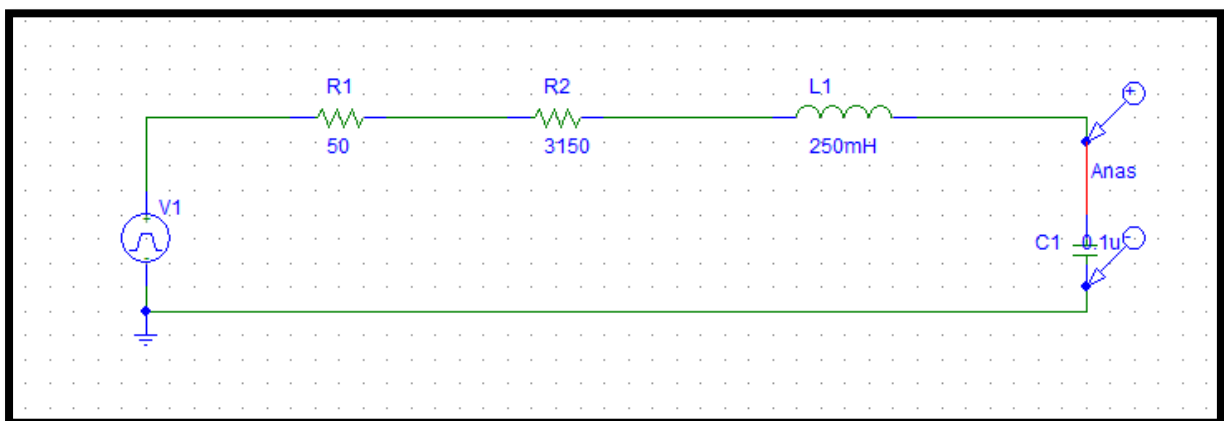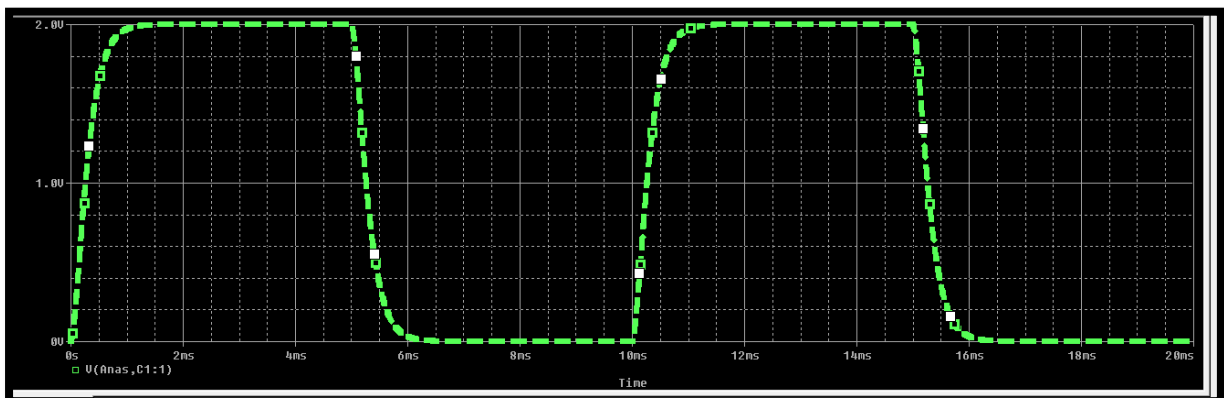**Part c: Step response of second-order Series RLC circuit:**
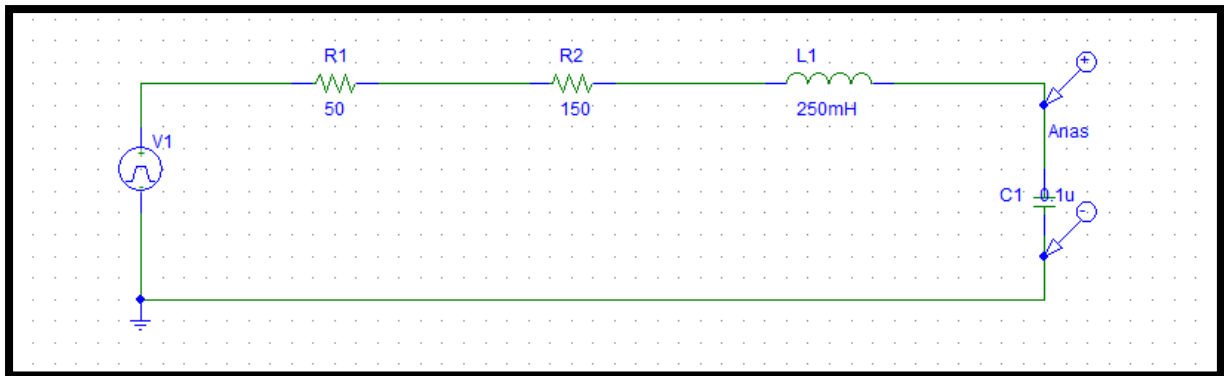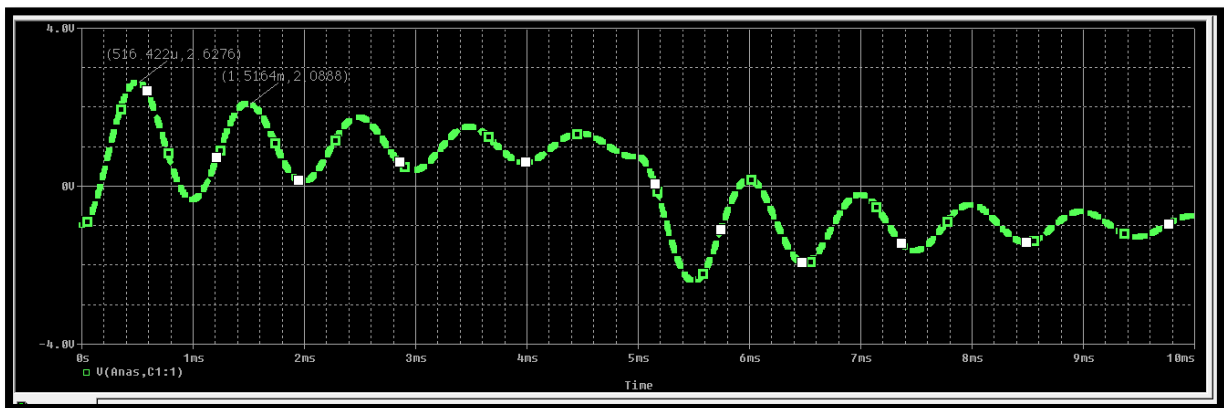
1) **The circuit:**

The result:

2) **The circuit:**

The result:

3) The curcuit:

The result:

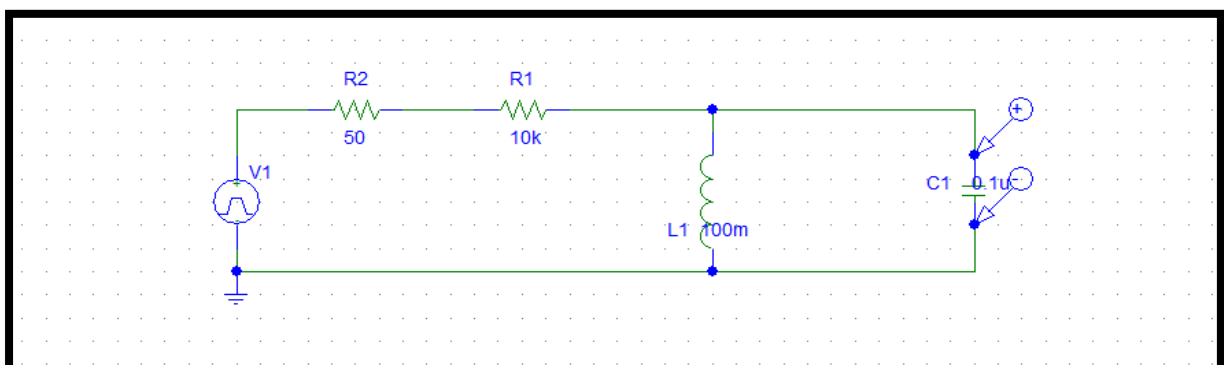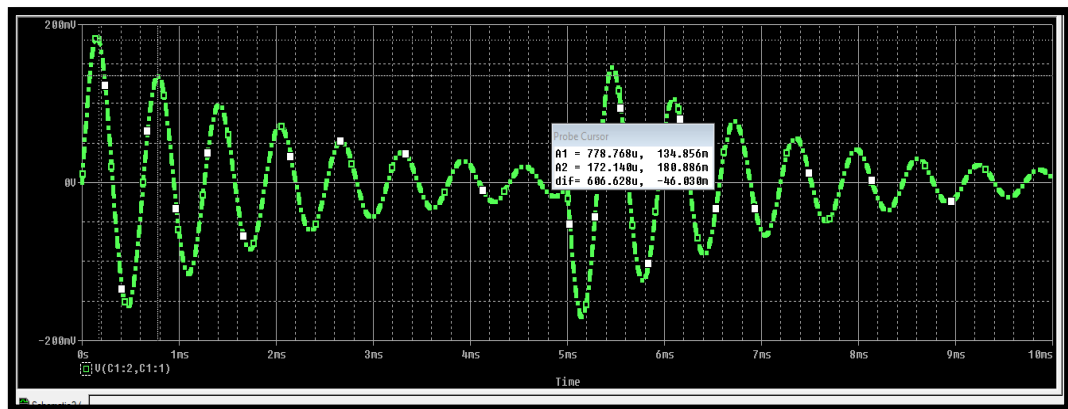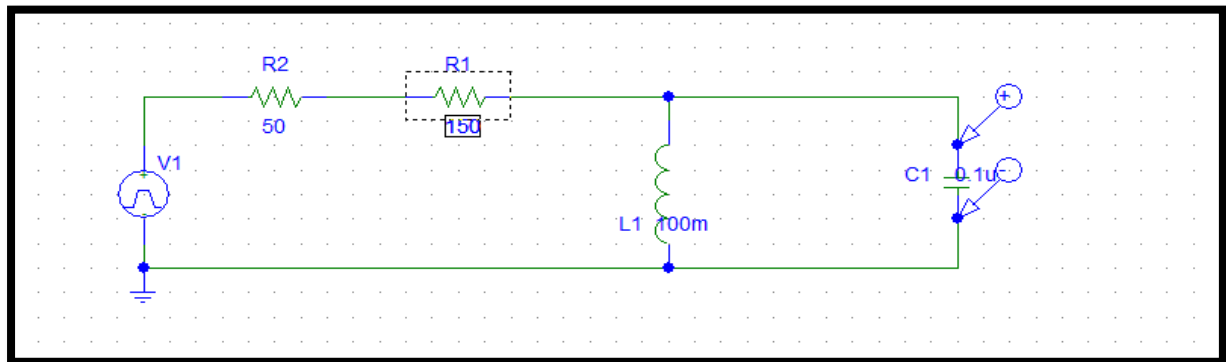## Part D: Step response of second-order parallel RLC circuit

The circuit:

The result:

The circuit:

The result: