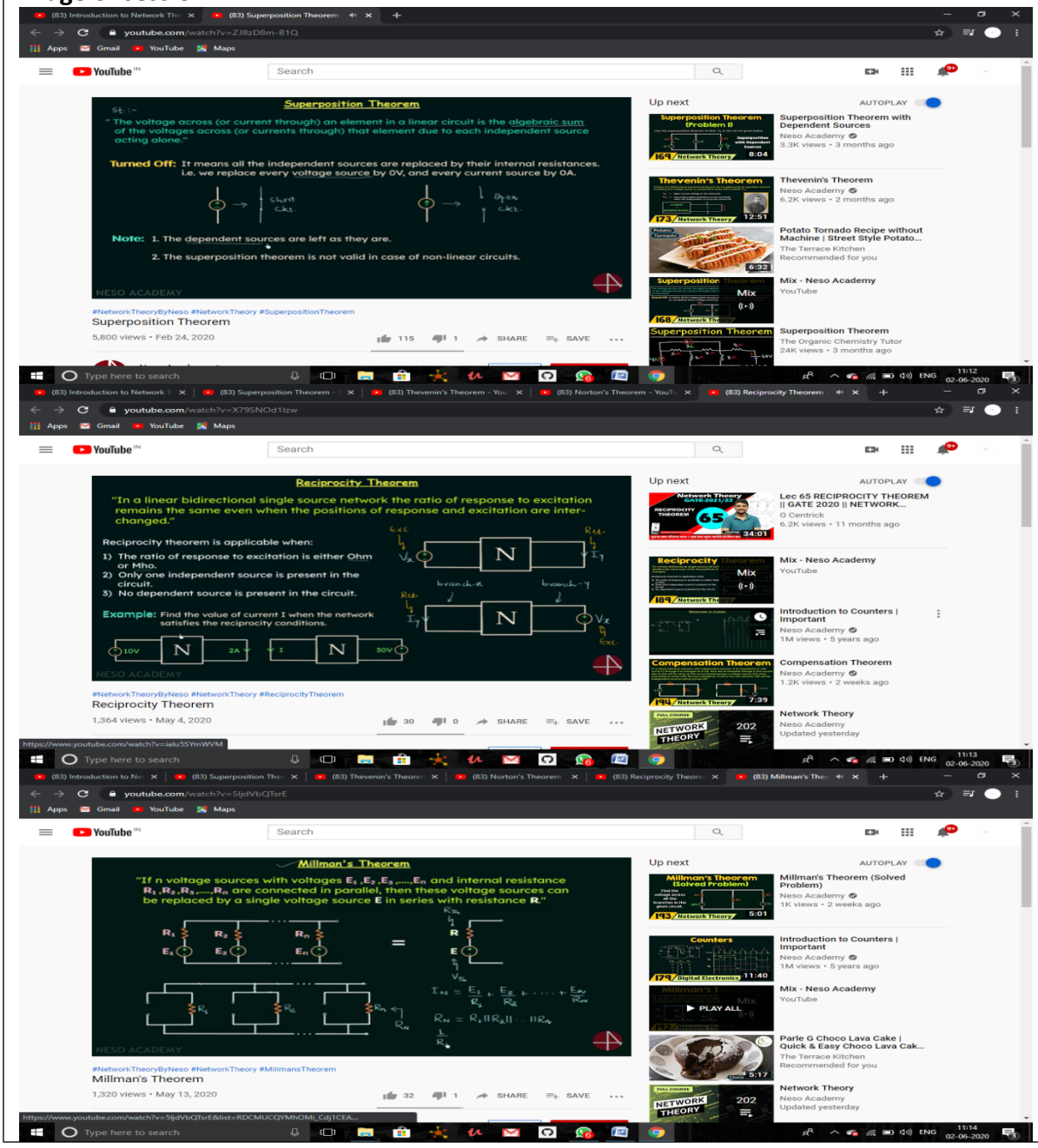
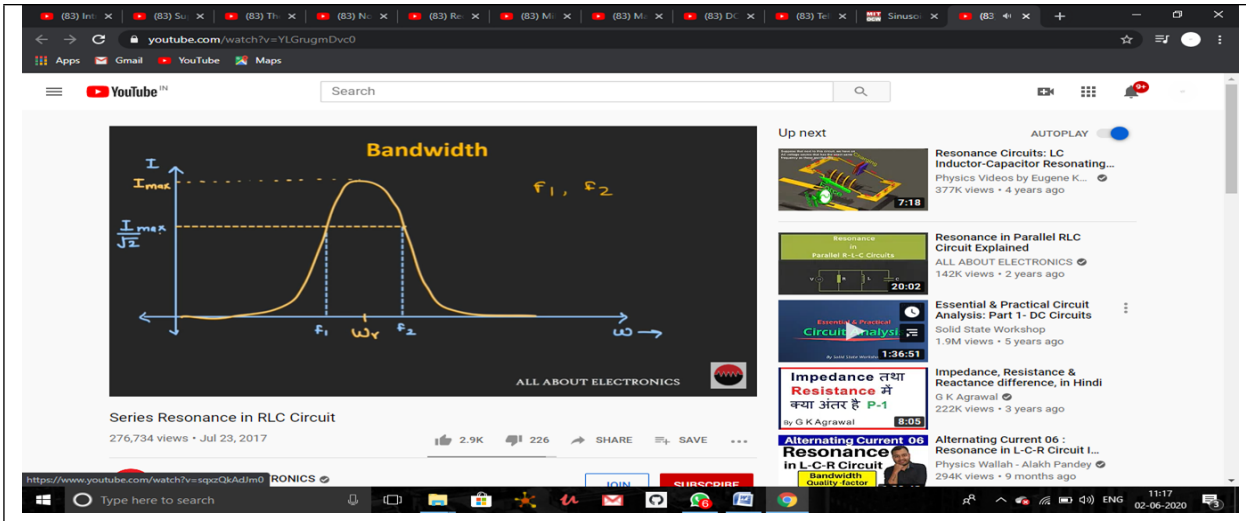
DAILY ASSESSMENT FORMAT

Date:	**2 JUNE 2020**	**Name:**	**HARSHITHA H**
Course:	**ELECTRICAL NETWORK THEORY**	**USN:**	**4AL18EC020**
Topic:	**1.Network Theorems 2.Resonance**	**Semester & Section:**	**IV SEM & A SECTION**
Github Repository:	**harshithah**		

FORENOON SESSION DETAILS

Image of session





Report –

ELECTRICAL NETWORK THEORY

TOPICS COVERED:

1.Network theorems:

- Theorems in Network Theory
- Linearity property
- Circuit linearity examples

Superposition theorem:

- Definition of Superposition theorem
- Steps to apply Superposition theorem
- Examples

Thevenins theorem:

- The need of Thevenin's theorem.
- The statement of Thevenin's theorem.
- The Thevenin's voltage.
- The Thevenin's resistance.
- The Thevenin's equivalent circuit.
- Example problem demonstrating the calculation of Thevenin's voltage and the Thevenin's resistance, along with the construction of Thevenin's equivalent circuit.

Nortons theorem:

- Norton's theorem statement.
- Norton's equivalent current.
- Norton's equivalent resistance.
- Norton's equivalent circuit.
- The difference between Thevenin's Theorem and Norton's Theorem.
- An example problem on Norton's theorem.

- **Reciprocity:**
  - The statement of Reciprocity Theorem.
  - The conditions to use Reciprocity Theorem.
  - Solved example on the use of Reciprocity Theorem.

- **Millmans theorem:**
  - The statement of Millman's theorem.
  - The derivation of Millman's theorem.
  - The dual of Millman's theorem.

- **Max Power theorem:**
  - Maximum Power Transfer Theorem
  - Derivation of Maximum Power Transfer Theorem
  - Examples

- **Compensation theorem:**
  - DC Circuit theorems
  - State and deriving Compensation theorems

- **Tellegens theorem**

2.Resonance and Bandwidth

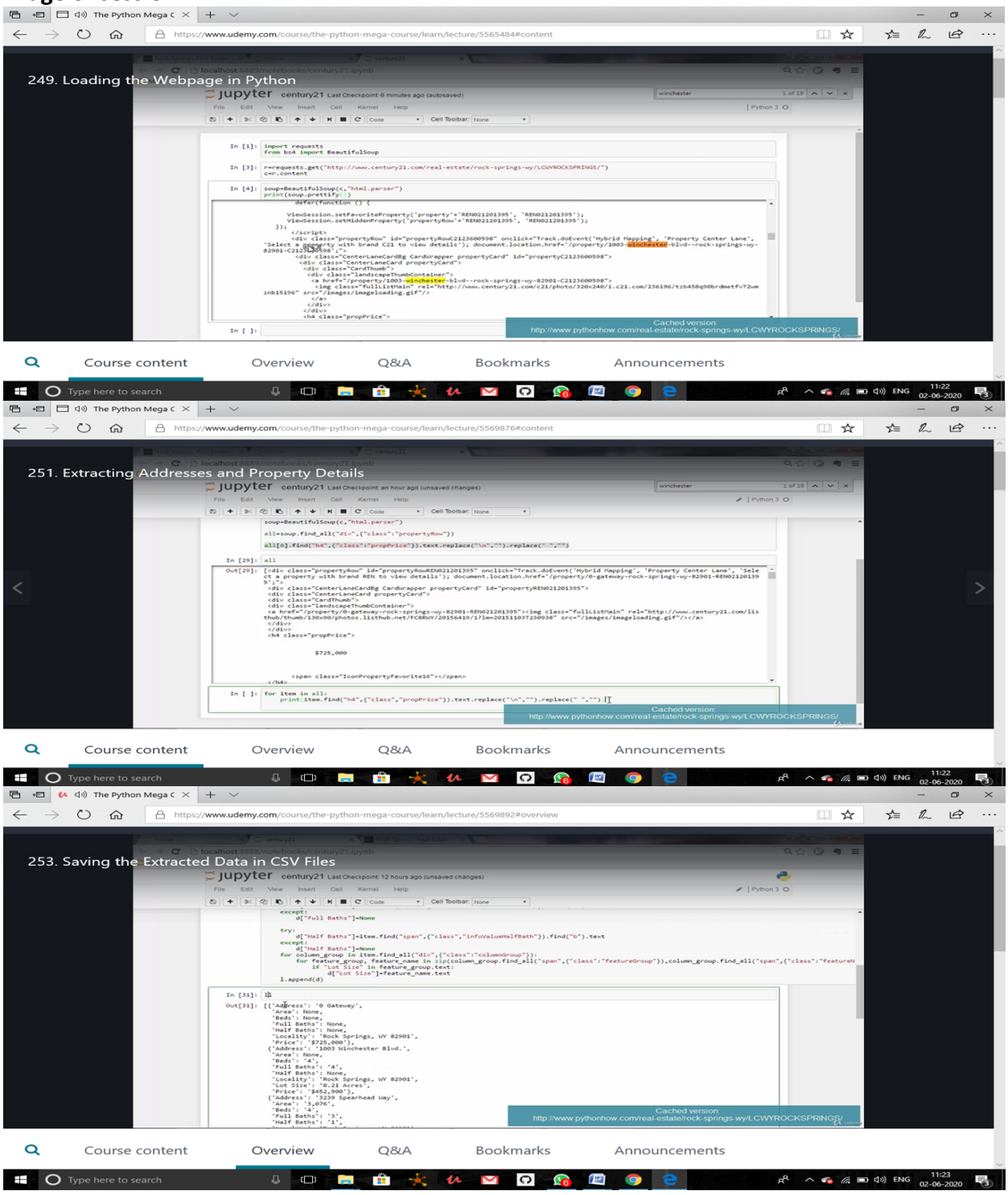
- **Series RLC circuit:**
  - Resonance in the RLC circuit
  - Quality factor
  - Bandwidth of the series resonant circuit
  - Derivation for the expression of resonant frequency
  - Derivation of bandwidth of the series resonant circuit
  - Expression of the Quality factor in terms of the circuit parameter.

- **Parallel RLC circuit:**
  - Resonance condition in Parallel RLC Circuit
  - Derivation of resonant frequency for Parallel RLC Circuit
  - Understanding the Resonant curve for Parallel RLC Circuit
  - Quality Factor of parallel Resonant circuit
  - Bandwidth of Parallel Resonant Circuit and its derivation
  - Current Magnification in Parallel Resonant Circuit

Date:2 JUNE 2020		Name:HARSHITHA H
Course: PYTHON		USN: 4AL18EC020
Topic: Application 7: Scrape Real Estate property data from the web		Semester & Section: IV SEM & A SECTION

AFTERNOON SESSION DETAILS

Image of session



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PYTHON:

Application 7: Scrape Real Estate Property Data from the Web

- Scraped website data
- Request Headers
- Loading the webpage in python
- Extracting “div” Tags
- Extracting website and property details
- Extracting elements without unique identifiers
- Saving the extracted data using CSV files
- Crawling through webpages