Lesson 1

Hands-On Learning Moment-1:
BJT Astable Multivibrator PCB

Use the tools and concepts learned in this lesson to complete the following project and reinforce your understanding

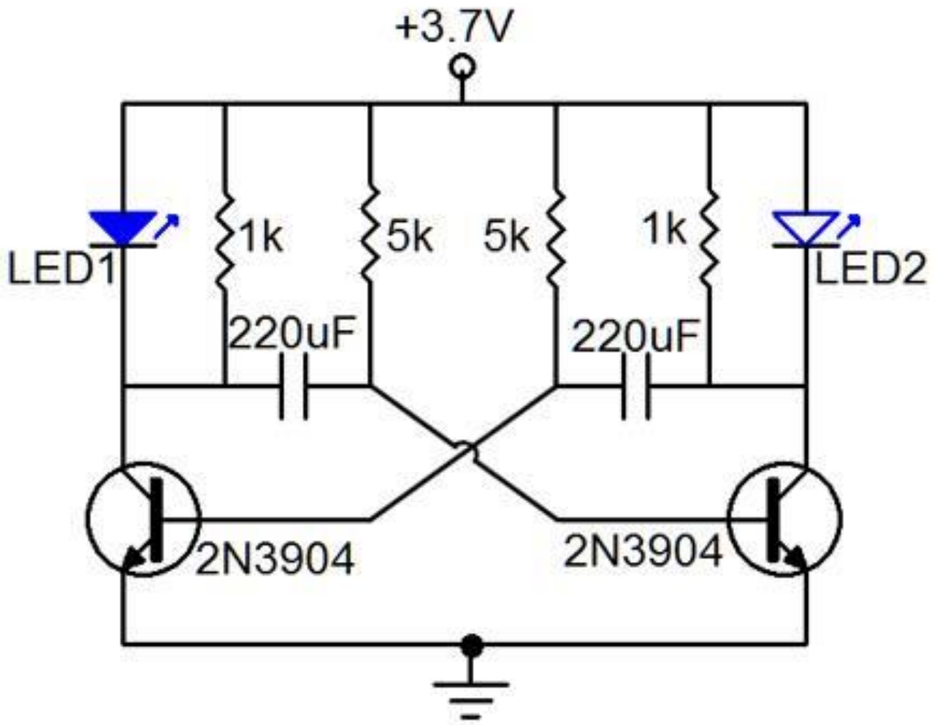
Task: Draw the schematic and complete the layout.

Circuit: Astable multivibrator using discrete components.

Package: Through-hole components only.

Steps

1. Get the circuit:



Steps

2. Draw Schematic: Create the project, draw the schematic, annotate, ERC and finally export netlist.

3. Complete the layout: Map the components to a suitable package, set up the board, import netlist and place the components, route and finally DRC.

Deliverable

1. PDF of schematic.
2. PDF of layout. Each layer in separate page.
3. Screenshot of the PCB 3D view.

Share The Project

Document: Save the report in PDF format.

Upload: Share in the “Peer Review” area of the course shell with a brief description.

Instructions for Documenting and Sharing The Project for Peer Review

1. Document the Project

- Use word processing software to create your report.
- Ensure all sections of the project document structure are completed.
- Proofread and edit your report for clarity and accuracy.

2. Share the Project

- Save your report in PDF format.
- Upload your documents to the “Peer Review” area in the course shell.
- Provide a brief description of your project in the submission post.

Instructions for Documenting and Sharing The Project for Peer Review

3. Peer Review

- Review the projects submitted by your peers.
- Provide constructive feedback and comments on their work.