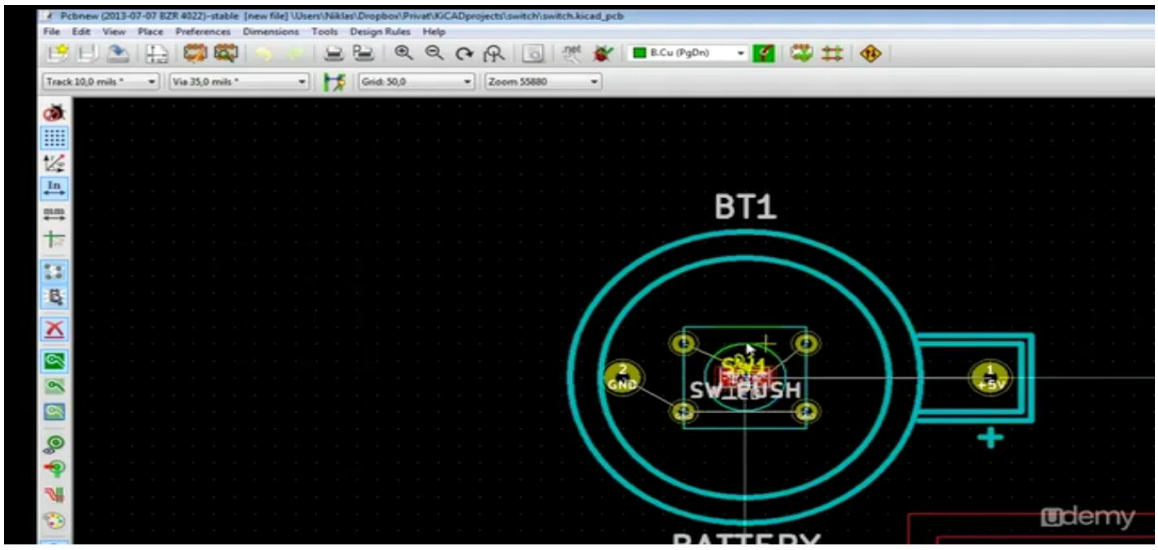
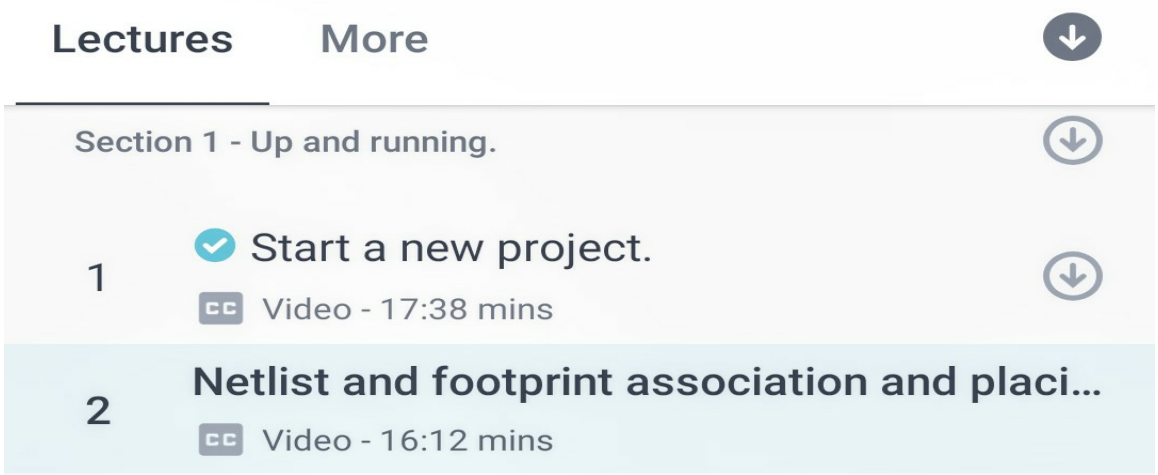
DAILY ASSESSMENT FORMAT

Date:	10-06-2020	**Name:**	K Muthu
Course:	PCB Design using Kicad	**USN:**	4al17ec038
Topic:	• Start a new project • Netlist and Footprint	**Semester & Section:**	6 & 'A'
Github Repository:	K.Muthu-courses		

FORENOON SESSION DETAILS

Image of session





Report –

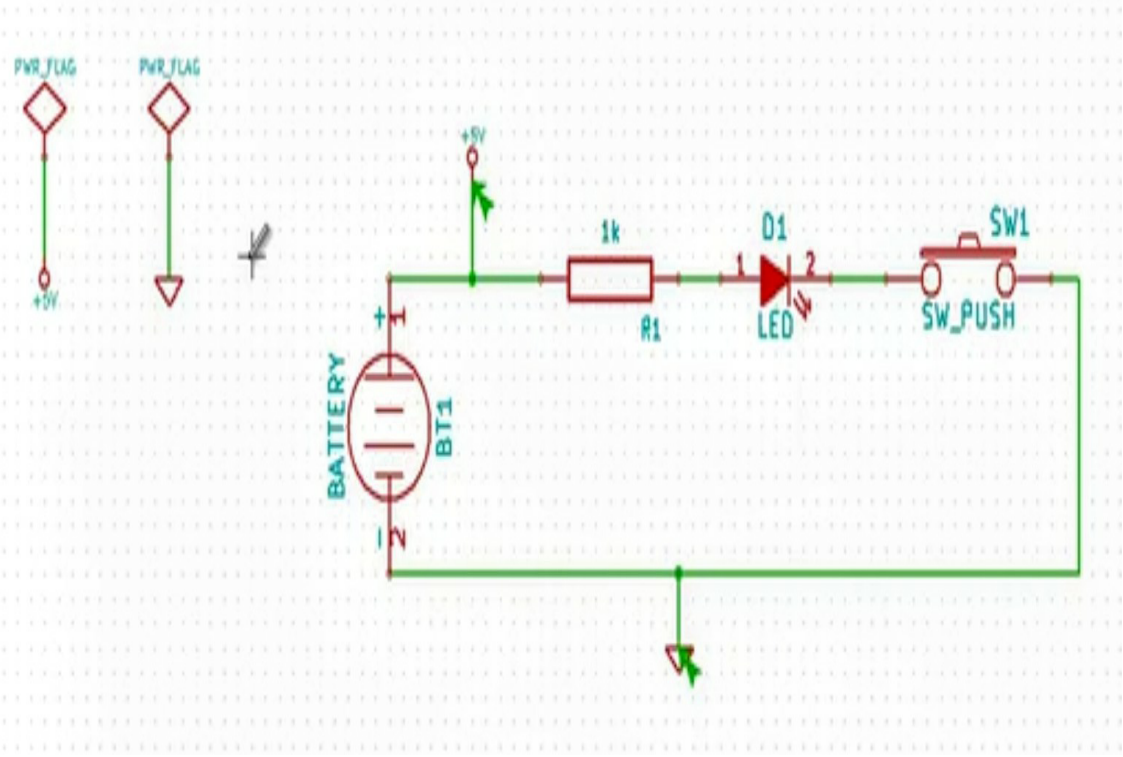
KiCad is a free and open source Electronic Design Automation (EDA) software package used to draw schematics (know as schematic capture) and for PCB design and layout.

Start a new project :

- Steps in creating a new project,
  - ✓ Start Kicad and create a new project.
  - ✓ Create a new directory to hold the project files
  - ✓ A new project is created.

- **Schematic :**

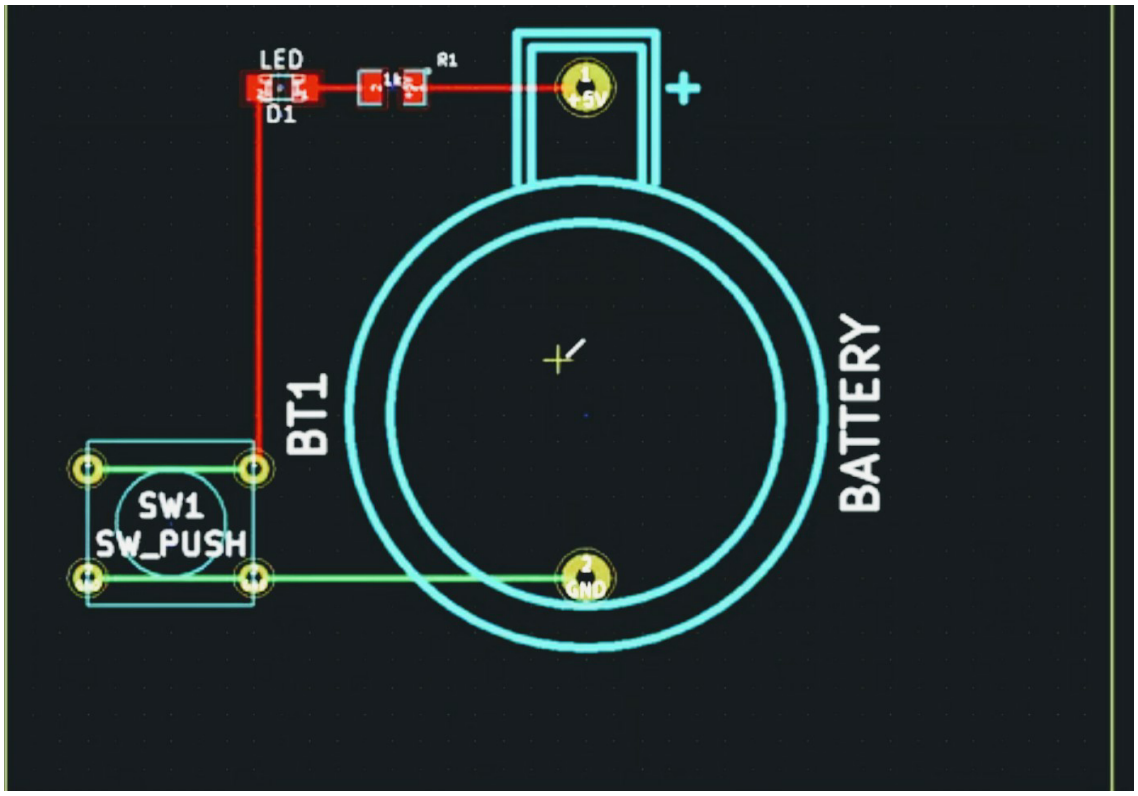
  In schematic, the actual circuit needs to be drawn using the different device symbols.



Netlist and Footprint :

- **Footprint** :
  - ✓ Once schematic is done, then the symbol needs to be connected to the required footprint.
  - ✓ The connection is done via the pin number given to the pins in the symbol and the pad number given to the pads in the **footprint**.

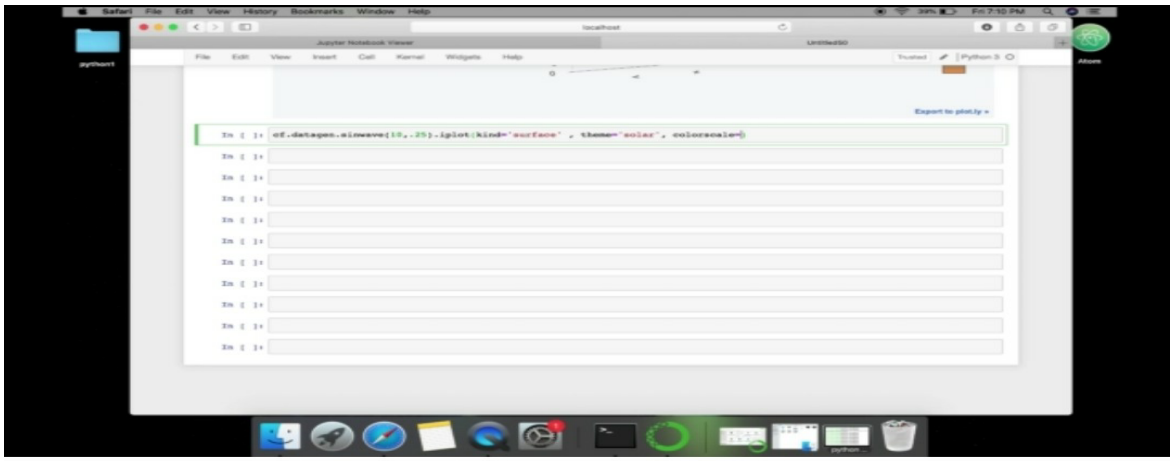
- **Netlist :**
  - ✓ Netlist is a file that tells KiCad which component terminals are connected to which other component terminals.
  - ✓ Generating a netlist is very important as it defines the actual layout of a pcb.

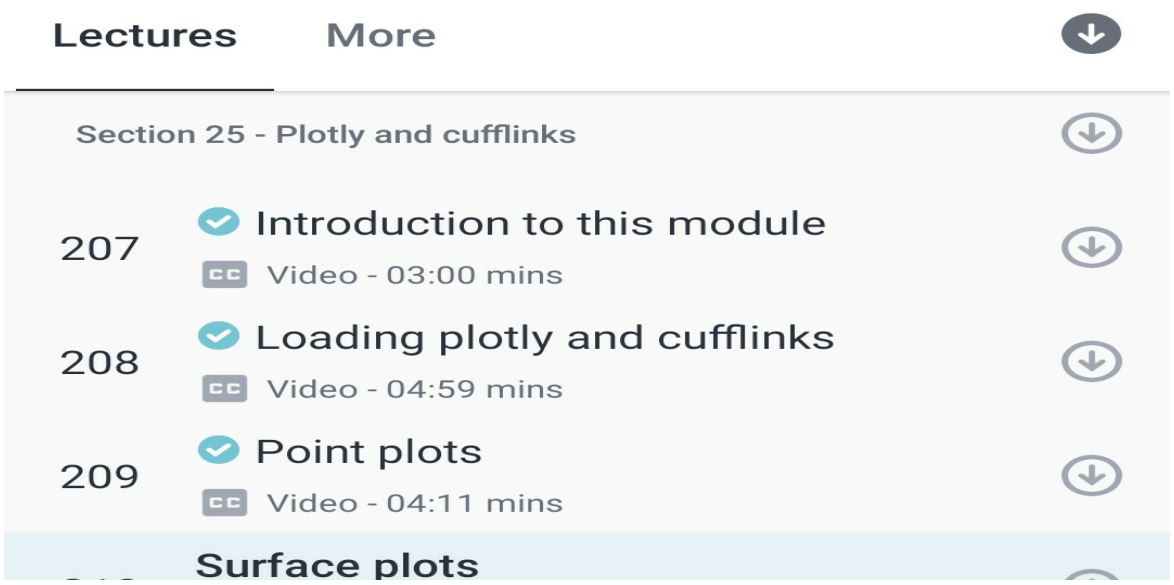


Date:	**10-06-2020**	**Name:**	**K Muthu**
Course:	**Python Bootcamp 2020 build 15 working applications and Games**	**USN:**	**4al17ec038**
Topic:	Plotly and Cufflinks	**Semester & Section:**	**6 & 'A'**

AFTERNOON SESSION DETAILS

Image of session

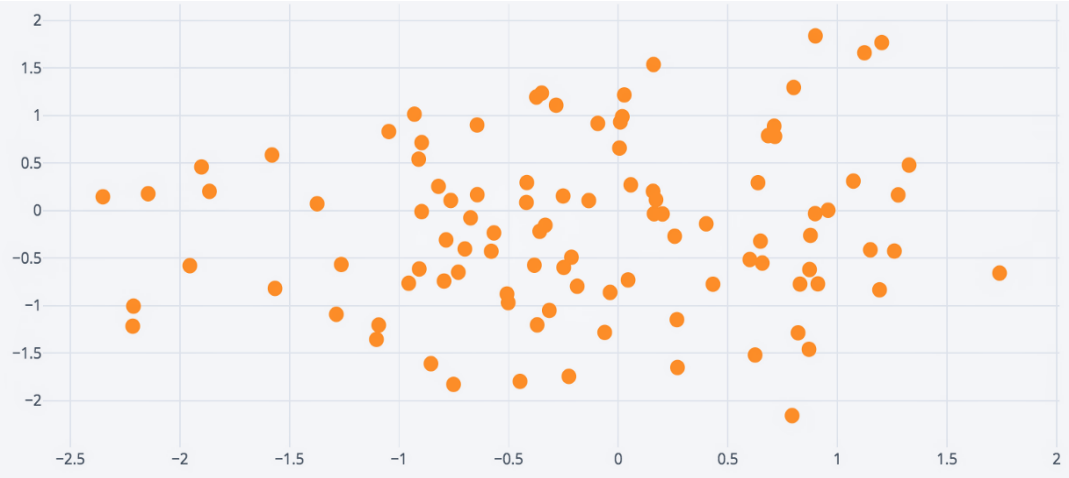




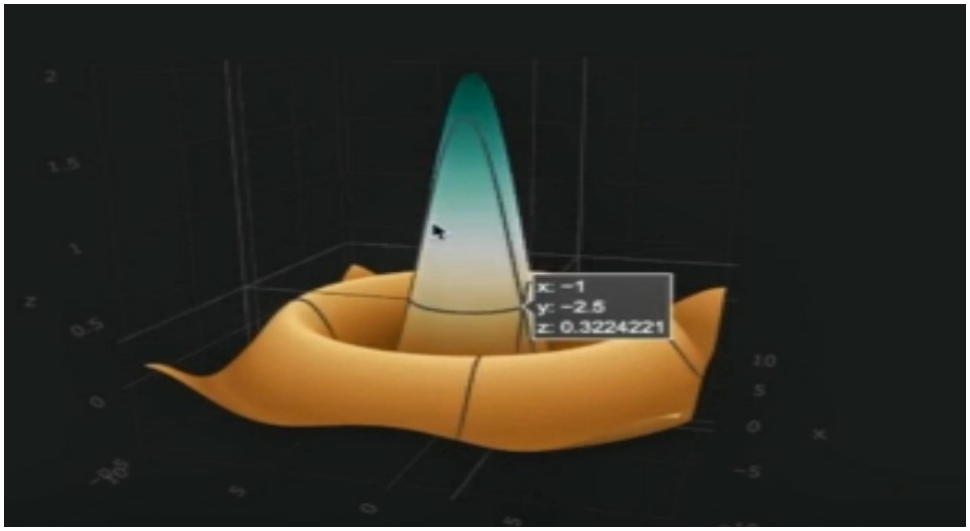
Report –

Ploty and Cufflinks :

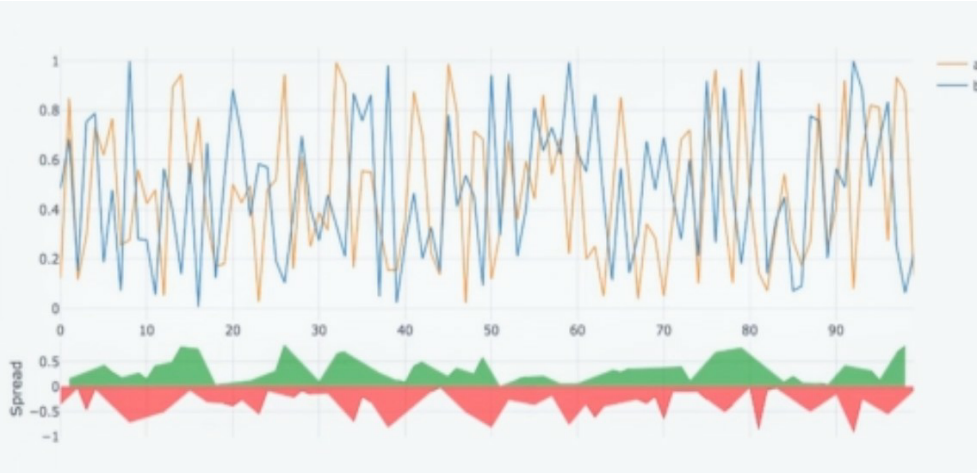
- Plotly is an open source tool for creating interactive data visualizations.
- Cufflinks connects Plotly with pandas to produce the interactive data visualizations. Well, let's get into it.
- Various plots provided under these are,
  - ✓ Scatter plot.



  - ✓ Surface plot.



✓ Spread plot.



✓ Histogram plot