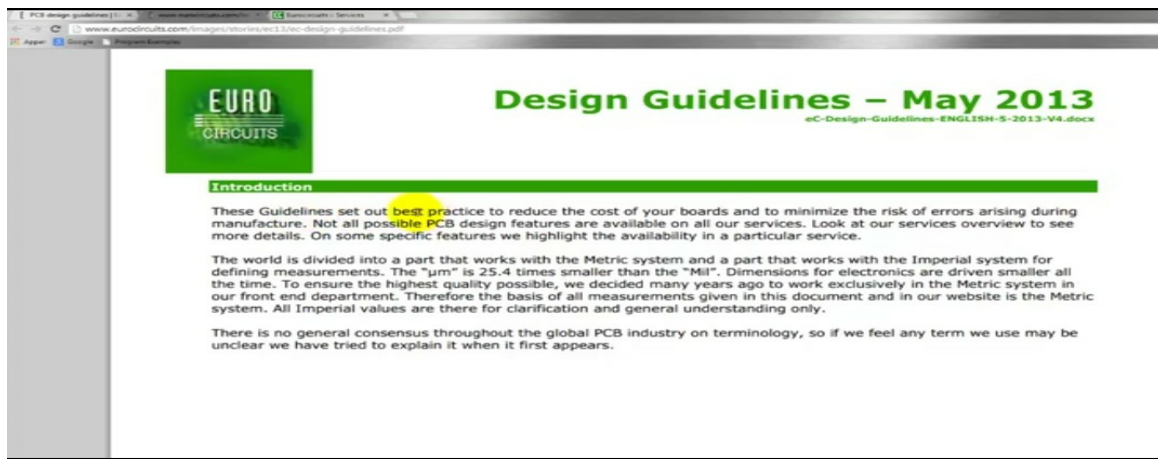


DAILY ASSESSMENT FORMAT

Date:	12-06-2020	Name:	K Muthu
Course:	PCB Design using Kicad	USN:	4a17ec038
Topic:	<ul style="list-style-type: none"> Create PCB footprint component Prepare production files 	Semester & Section:	6 & 'A'
Github Repository:	K.Muthu-courses		

FORENOON SESSION DETAILS

Image of session



Lectures

More

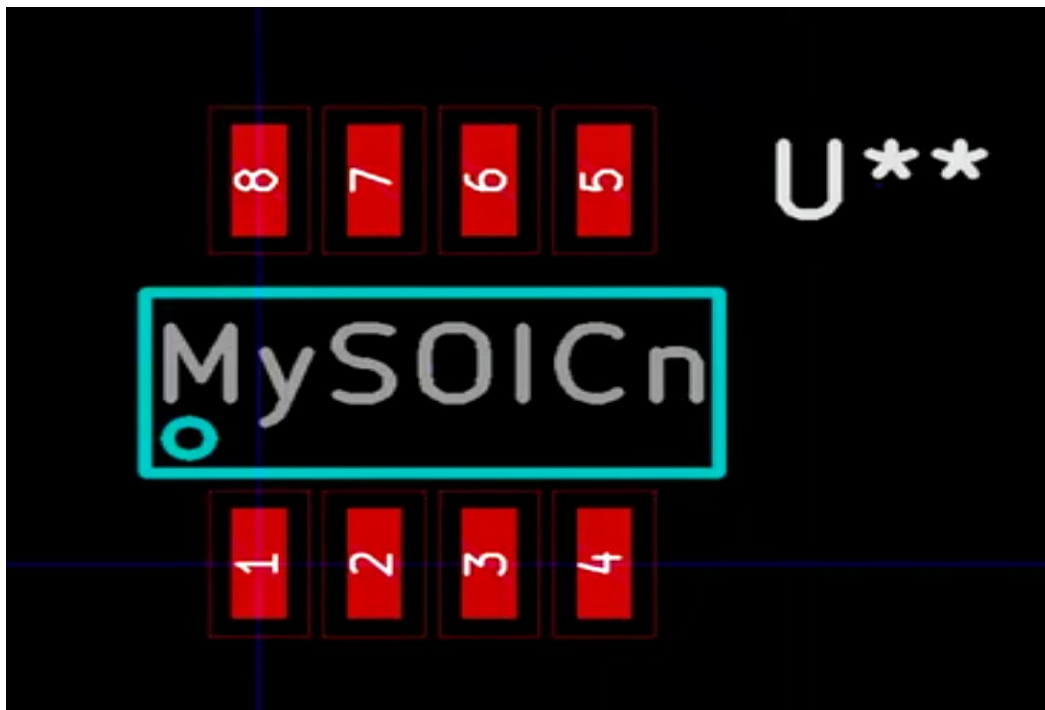
- 1 ☒ Start a new project.
Video - 17:38 mins
- 2 ☒ Netlist and footprint association a...
Video - 16:12 mins
- 3 ☒ Silk-screen and copper pour.
Video - 08:41 mins

Report –

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

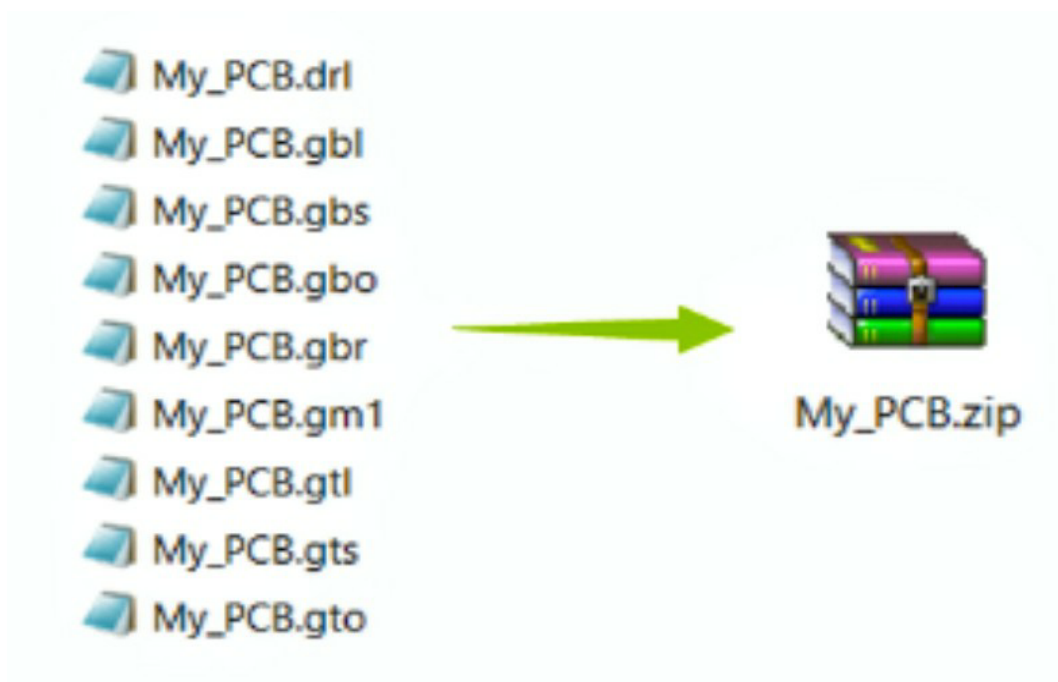
Create PCB footprint component :

- Steps in creating a PCB footprint component are,
 - ✓ In the footprint editor, click on new footprint button.
 - ✓ Name the new footprint.
 - ✓ Add boundaries and pins.
 - ✓ The pad button allows you to add pads on the canvas.
 - ✓ Use the polygon tool to draw the silkscreen shape that will indicate the border of the custom footprint.
 - ✓ Use the text label tool to label the pins.
 - ✓ Save the footprint.
- Example on creating a new footprint component,



Prepare production files :

- Production files need to be generated are **Gerber** and **Drill** files.
- Steps in creating these files are,
 - ✓ Select the 'Plot' button
 - ✓ Make sure the Plot format is set to 'Gerber' and all the aforementioned layers have been selected.
 - ✓ Once our gerber files have been generated, they can be reviewed to catch any potential errors.
 - ✓ Click on File and select Load Gerber file.
 - ✓ Select all of the layers shown and click 'Open'.
 - ✓ In the same manner, click on 'File' > 'Load EXCELLON Drill File'.
 - ✓ Select the drill file(s) and click 'Open'.



Date:	12-06-2020	Name:	K Muthu
Course:	Python	USN:	4al17ec038
Topic:	Text to Speech	Semester & Section:	6 & 'A'

AFTERNOON SESSION DETAILS

Image of session



Lectures More



Section 40 - End of the course



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Time to say goodbye! for now



Video - 00:15 mins



Report –

Text to Speech :

- **gTTS** is a very easy to use tool which converts the text entered, into audio which can be saved as a mp3 file.
- The gTTS API supports several languages including English, Hindi, Tamil, French, German and many more.
- The speech can be delivered in any one of the two available audio speeds, fast or slow.
- Example on text to speech,

```
# Import the required module
from gtts import gTTS

# The text that you want to convert to audio
text = 'Good Morning. How can i help you'

# Language in which you want to convert
language = 'en'

# Passing the text and language to the engine,
# here we have marked slow=False.
obj = gTTS(text=mytext, lang=language, slow=False)

# Saving the converted audio in a mp3 file named
# welcome
obj.save("welcome.mp3")
```