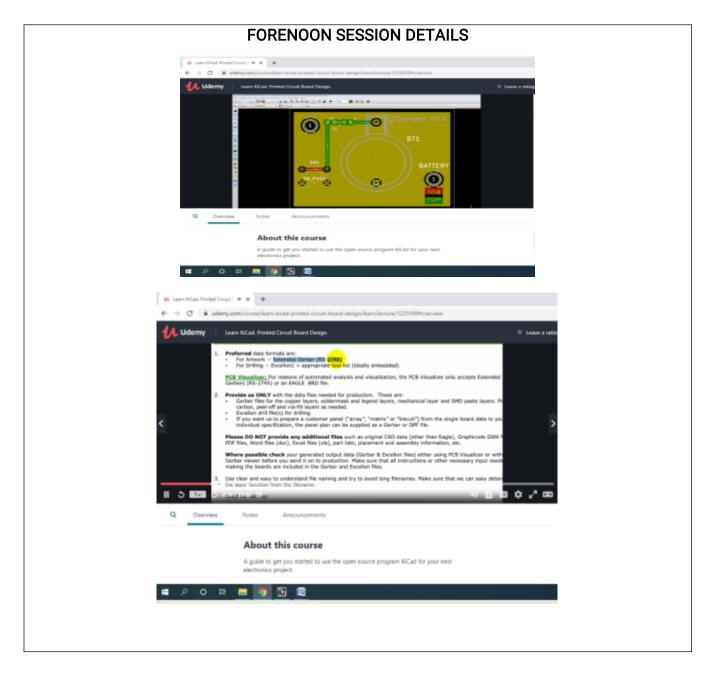
DAILY ASSESSMENT FORMAT

Date:	11-06-2020	Name:	POOJA KS
Course:	PCB design using Kicad	USN:	4AL16EC070
Topic:	Add footprint search path, prepare production files	Semester & Section:	6 th sem 'B' sec
Github Repositor y:	pooja-shivanna		



Add footprint search path:

When creating a custom PCB footprint for a component, it is stored somewhere on your computer. In order for Design Entry CIS to find where a custom footprint is stored and associate it with a schematic component, the *library search path* must be changed so that Design Entry CIS knows where to look. Save your custom footprints in the symbols folder on your computer. Depending on how Cadence is installed on your computer, the full path should be similar to:

C:\Program Files\Cadence\SPB_17.2\share\pcb\pcb_lib\symbols

When creating a new footprint drawing, the New Drawing dialog box will show the default pathLaunch Design Entry CIS. Note the full path for the Capture.ini file shown on the Start Page (see Figure 2). Depending on how Cadence is installed on your computer, the full path should be similar to:C:\Cadence\SPB_Data-

Silent\cdssetup\OrCAD_Capture\17.2.0\Capture.ini

or, if you made a custom HOME variable:

%HOME%\cdssetup\OrCAD_Capture\17.2.0\Capture.iniThe Capture.ini file will open in Notepad. Under the [Allegro Footprints] section, add the full library search path from step 1 above if it is not already listed (see Figure 4). Note that you must increment the number after Dir for each path added (e.g., Dir0, Dir1, Dir2). Do not delete any existing paths from the list. You have successfully added a library search path to Design Entry CIS. If you are still not able to attach your custom footprints to schematic symbols, re-check the above steps and make sure your custom footprint name is correct.

What is a Gerber file?

The most widely used file format for PCB manufacturing is called Gerber. When manufacturers request "Gerbers" or "Gerber files," they are referring to ASCII files that contain Gerber-formatted data. A Gerber file knows nothing about design rules, net connectivity, or component libraries; it is simply two-dimensional artwork that indicates where the manufacturing equipment will place copper, solder mask, or silkscreen. One Gerber file provides information for one PCB feature on one layer. Thus, if you have a two-layer board and each side has copper, solder mask, and silkscreen, you will need six Gerber files. You may also need a separate Gerber file to identify the board outline. Generating Gerber files can be somewhat complicated. The process involves various configuration details, and different manufacturers have different requirements. The following screen capture shows the options that you have to consider when generating Gerber files with DipTrac If you don't have much experience with Gerber generation, I suggest the following approach: First, choose a manufacturer that provides specific instructions on how to generate Gerber files with specific CAD tools. Second, use one of these CAD tools to design your board. If you follow the instructions carefully, you will almost certainly avoid the two



potential consequences of improper. Gerber files: a delay in the manufacturing process (more likely), or a nonfunctional PCB (nowadays probably quite rare).

The drill file:

You will also need to generate a file that indicates the position and size of every hole that will be drilled through your board, i.e., both through-holes (for mounting components) and vias. This is called the NC (numeric control) drill file; you may also see "Excellon drill file" (which comes from Excellon Automation, a company that makes equipment used in PCB manufacturing). Again, the safest approach here is to follow specific instructions provided by a PCB manufacturer.

Project files vs. Manufacturing files:

If you'd prefer to avoid generating any type of manufacturing file, you can look for a PCB manufacturer that accepts your CAD software's project files. I assume that the manufacturer uses some sort of automated procedure to generate Gerbers from the project file; this is beneficial not only because it saves you time but also because the fab house technicians will (presumably) know exactly how to generate files that are compatible with their equipment. The list in the next section gives some information about one manufacturer that accepts project files

DAILY ASSESSMENT FORMAT

Date:	11-06-2020	Name:	POOJA K S
Course:	JAVA	USN:	4AL16EC070
Topic:	Class and objects, parameters, Constructors and inheritance.	Semester & Section:	6 th sem 'B' sec

	A rise
	CID 1300 Carl and a large
	Classes and Objects of
	128801) 1
4	String name;
	re ent age;
G P	
-	public class App ?
Part I	public static void main (String[] args) i
	Petson petson ();
	netson 1. name = "foe Bloggs";
	petson 1. age = 37;
_	0 .)
	Petson petson 2 = new Petson ();
	person2, name = "Sarah Smith";
	petson 2, age = 26;
	9
	System. out. printle (person). name);
	3
	3
	70.70
•	Methods Parameters -
	Class Robert 8
	public void speak (String text) ?
	System, out, printer (text);
	3 (Cid basid) 5
	public void jump (ind height) & System out puntle ("jumping: " + height);
A	public void move (String direction, double disjoints)
-	+ direction);
	7

$-\parallel$	public class App ?
-11-	public static void main (String[] args) &
	Robot Sam = new Robot ();
-	som. speak ("Hi I'm Som.").
-11-	Sam, Hump (7);
-	Sam, move ("plest", 12-2),
-11-	String greating - "Hello there";
	sam. speak (geseting)
	int value = 14;
- 11	Sam. jump (value);
$-\parallel$	3
-	Constructoes:
	Class Machine &
	newate string name;
	public machine () { System. out. print in ("Constructor running!");
	Suntem. out. println (Constitute trumby,
	name = Helle
	3 (Studendard) f
	public Machine (String name) { System.out. println ("Second Constructor running");
	this name = name;
	3
	2
//	Public Machine (String name, int code) {
	System. out. peintln ("Third constructor surring")
	this, name = name;
	this cade = code;
//	3
// :	
12	rated
// '	

- 11	
	public class App ? public static void main (string[] args) {
	and a spinol = noill Mathing ()
	hine 2 = new Machine (Bettle")
	Machine machines = new Machine ("Chalky", ?);
	}
	3
6	Inheritance: