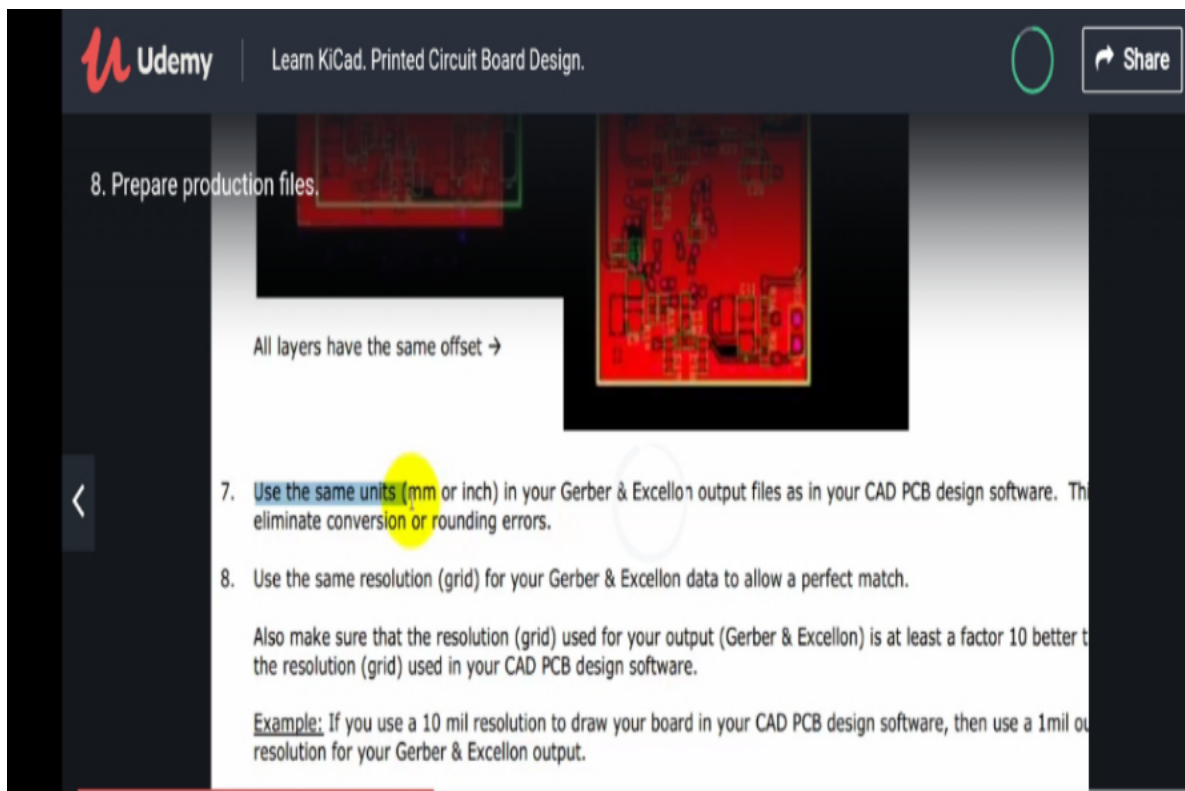


# DAILY ASSESSMENT FORMAT

Date:	12/06/2020	Name:	Nichenametla Bhargavi
Course:	PCB design	USN:	4AL17EC061
Topic:	1. Add Footprint search path 2. Prepare production files	Semester & Section:	6th Sem A sec
Github Repository:	Bhargavi_Nichenametla		

## FORENOON SESSION DETAILS

Image of session



**Report – Report can be typed or hand written for up to two pages.**

**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 will place copper, solder mask, or silkscreen.

- 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.

- 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).

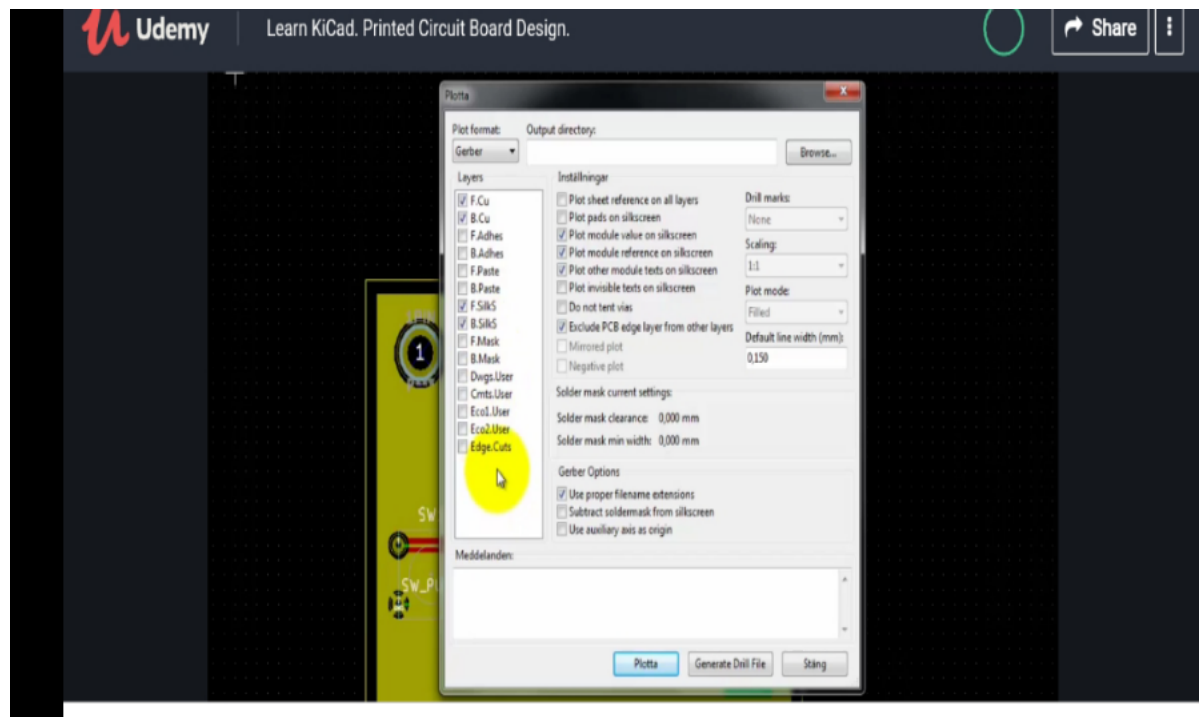
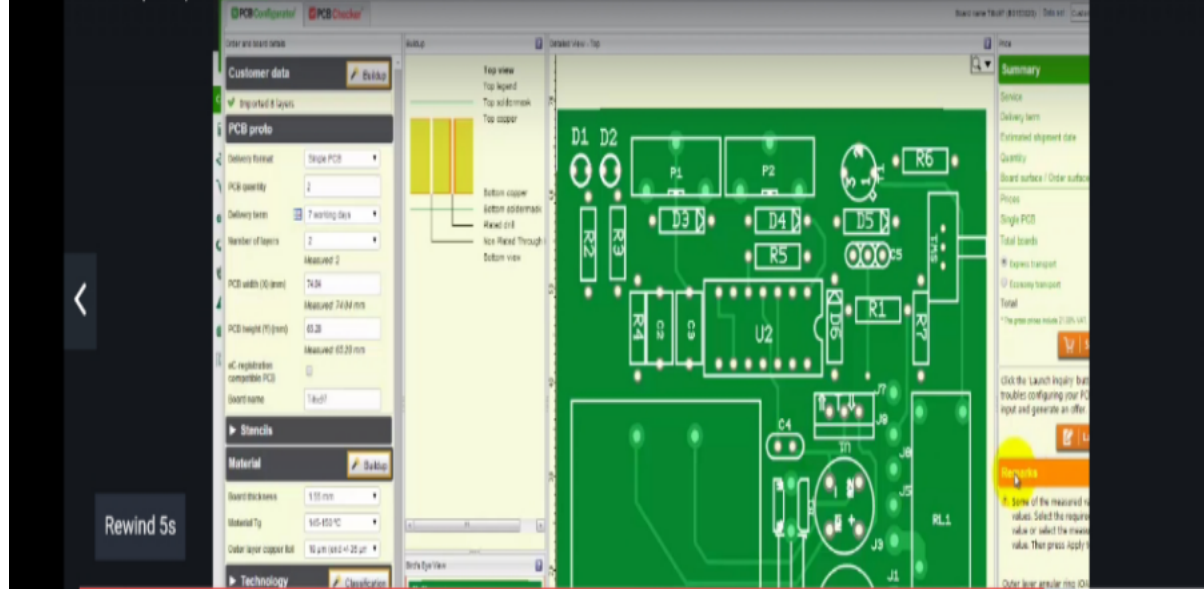
The drill file:

- 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 and vias.

- This is called the NC (numeric control) drill file, you may also see “Excellon drill file”.

Again, the safest approach here is to follow specific instructions provided by a PCB manufacture.

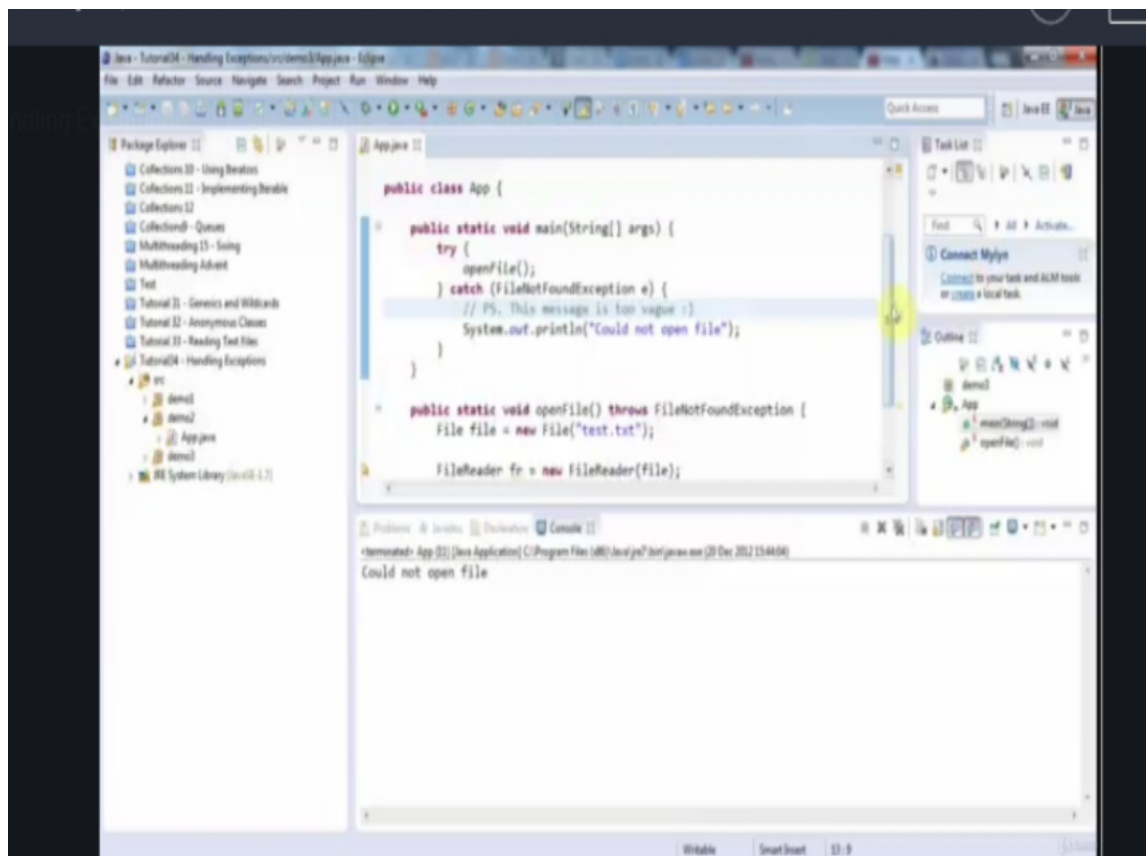
## 8. Prepare production files.



<b>Date:</b>	12/06/2020	<b>Name:</b>	Nichenametla Bhargavi
<b>Course:</b>	Java	<b>USN:</b>	4AL17EC061
<b>Topic:</b>	Programming in core Java	<b>Semester &amp; Section:</b>	6th Sem A sec
<b>Github Repository:</b>	Bhargavi_Nichenametla		

### AFTERNOON SESSION DETAILS

Image of session

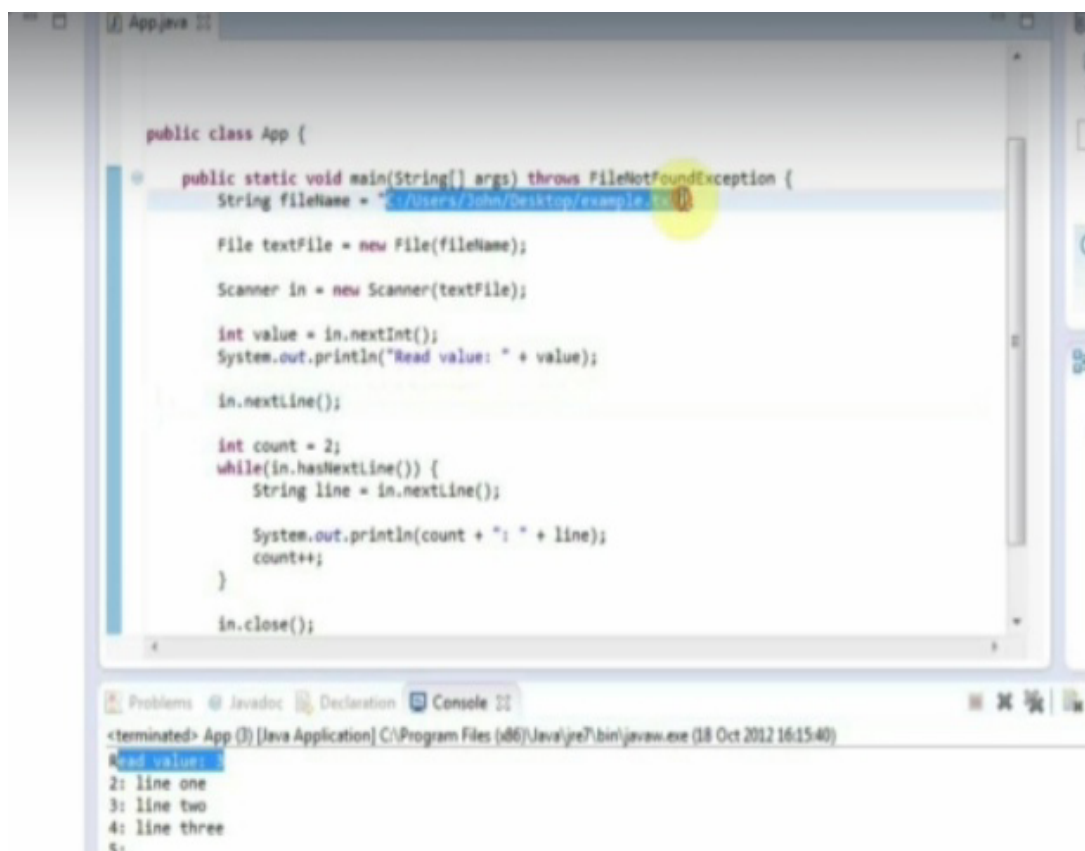


**Report – Report can be typed or hand written for up to two pages.**

### Programming in Core Java:

- Learnt how to write "Generics and Wildcards " Program in Java Eclipse.
- Learnt about the topic "Anonymous Classes".
- Came Across the topic "Reading files using Scanner".
- Got familiarized with "Handling Expectations " in Java.
- Got to know about "Multiple Exceptions" in Java.
- Learnt about "Abstract Classes" conditional statement usage in Java programing.
- Learnt about " Runtime vs. Checked Exceptions"
- Came across " Reading files with File Reader" in Java.
- Saw "Try-With-Resources" statements and its working.
- Got introduced to the "Creating and Writing files" in Java.

### Example program for Reading Files using Scanner:



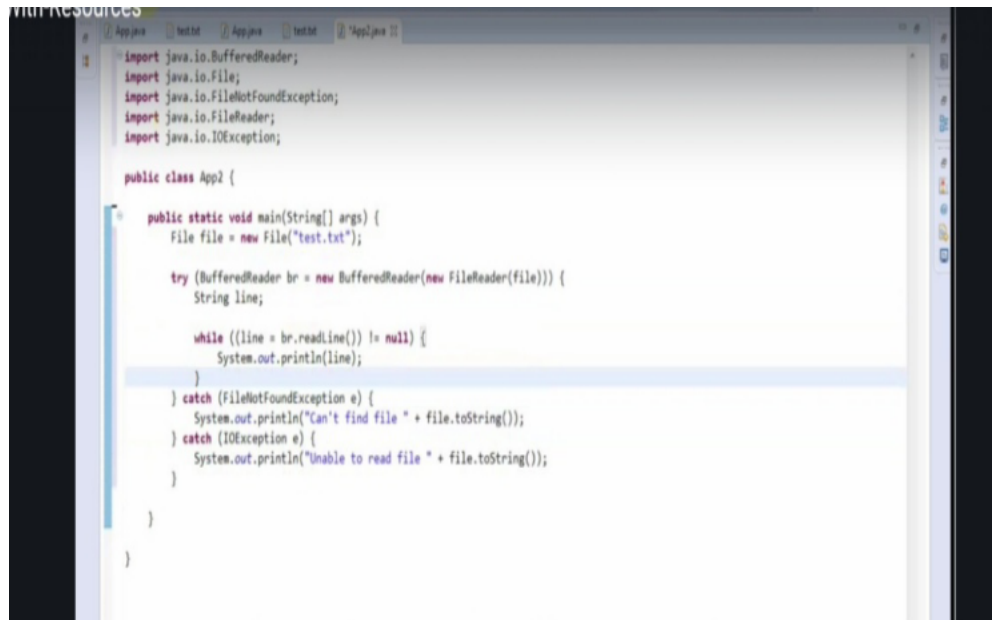
```
public class App {  
    public static void main(String[] args) throws FileNotFoundException {  
        String fileName = "C:/Users/John/Desktop/example.txt";  
  
        File textFile = new File(fileName);  
  
        Scanner in = new Scanner(textFile);  
  
        int value = in.nextInt();  
        System.out.println("Read value: " + value);  
  
        in.nextLine();  
  
        int count = 2;  
        while(in.hasNextLine()) {  
            String line = in.nextLine();  
  
            System.out.println(count + ": " + line);  
            count++;  
        }  
  
        in.close();  
    }  
}
```

Problems | Javadoc | Declaration | Console

<terminated> App (3) [Java Application] C:\Program Files (x86)\Java\jre7\bin\java.exe (18 Oct 2012 16:15:40)

Read value:  
2: line one  
3: line two  
4: line three  
5:

## Try With Resources :



```
import java.io.BufferedReader;
import java.io.File;
import java.io.FileNotFoundException;
import java.io.FileReader;
import java.io.IOException;

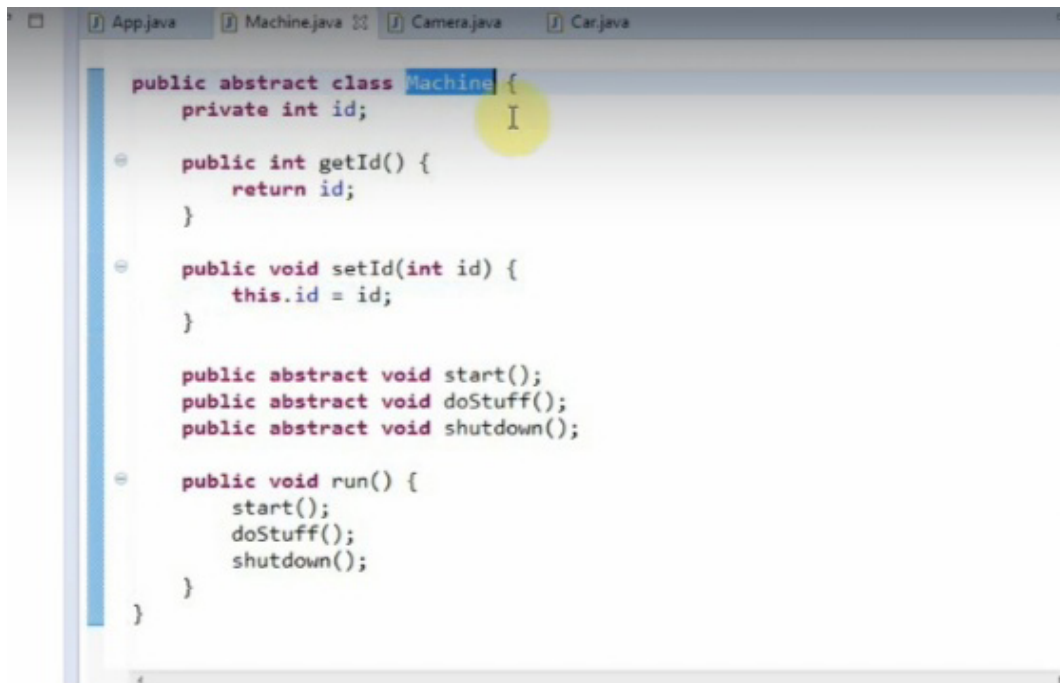
public class App2 {

    public static void main(String[] args) {
        File file = new File("test.txt");

        try (BufferedReader br = new BufferedReader(new FileReader(file))) {
            String line;

            while ((line = br.readLine()) != null) {
                System.out.println(line);
            }
        } catch (FileNotFoundException e) {
            System.out.println("Can't find file " + file.toString());
        } catch (IOException e) {
            System.out.println("Unable to read file " + file.toString());
        }
    }
}
```

## Abstract Class:



```
public abstract class Machine {
    private int id;



    public int getId() {
        return id;
    }

    public void setId(int id) {
        this.id = id;
    }



    public abstract void start();
    public abstract void doStuff();
    public abstract void shutdown();


    public void run() {
        start();
        doStuff();
        shutdown();
    }
}
```

<b>Date:</b>	<b>12/06/2020</b>	<b>Name:</b>	<b>Nichenametla Bhargavi</b>
<b>Course:</b>	Webinar	<b>USN:</b>	<b>4AL17EC061</b>
<b>Topic:</b>	Presentation Skills	<b>Semester &amp; Section:</b>	<b>6th Sem A sec</b>
<b>Github Repository:</b>	<b>Bhargavi_Nichenametla</b>		





## Postures



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