

Grp no: 8

Aradi Mahapatra

19BEE0032

Date → 7th April 2021

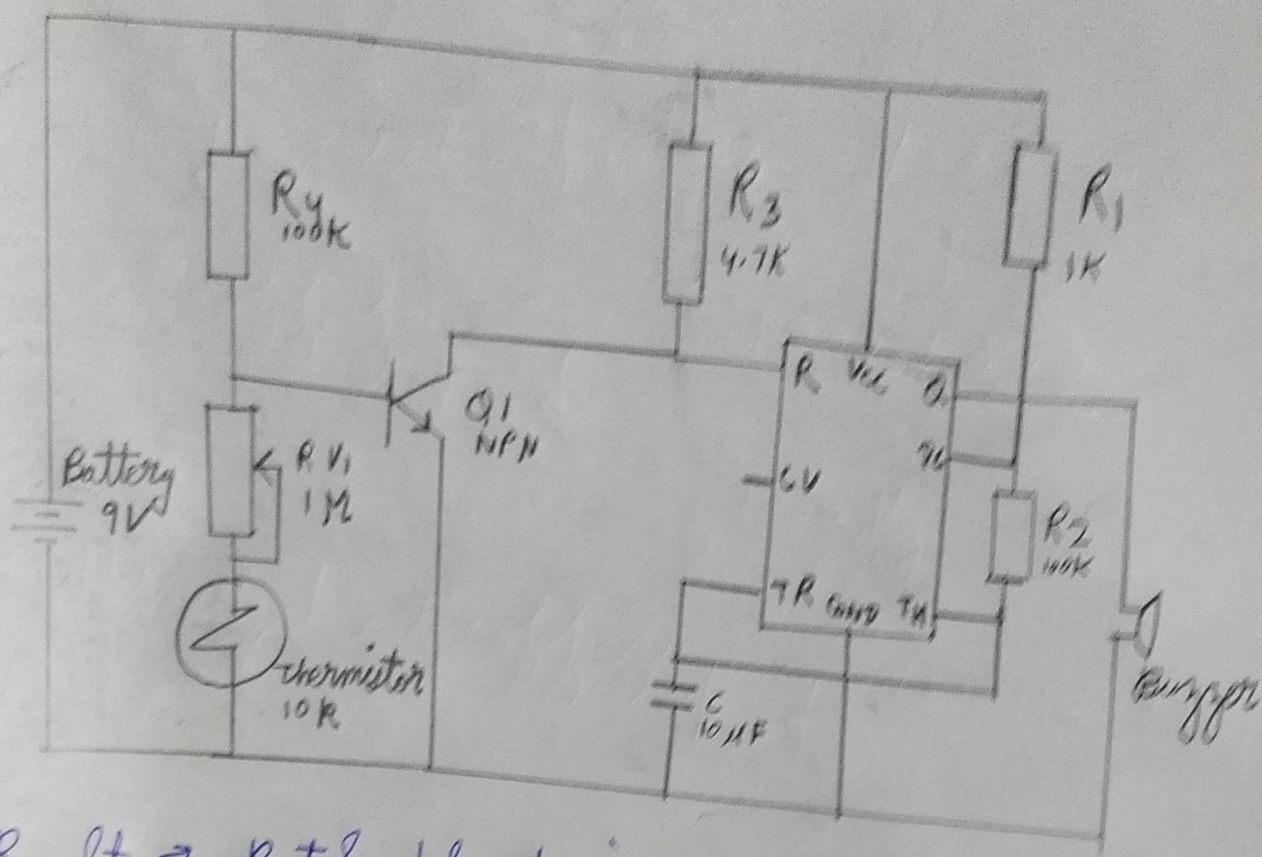
Aim → PCB Design of fire alarm circuit.

Apparatus required →

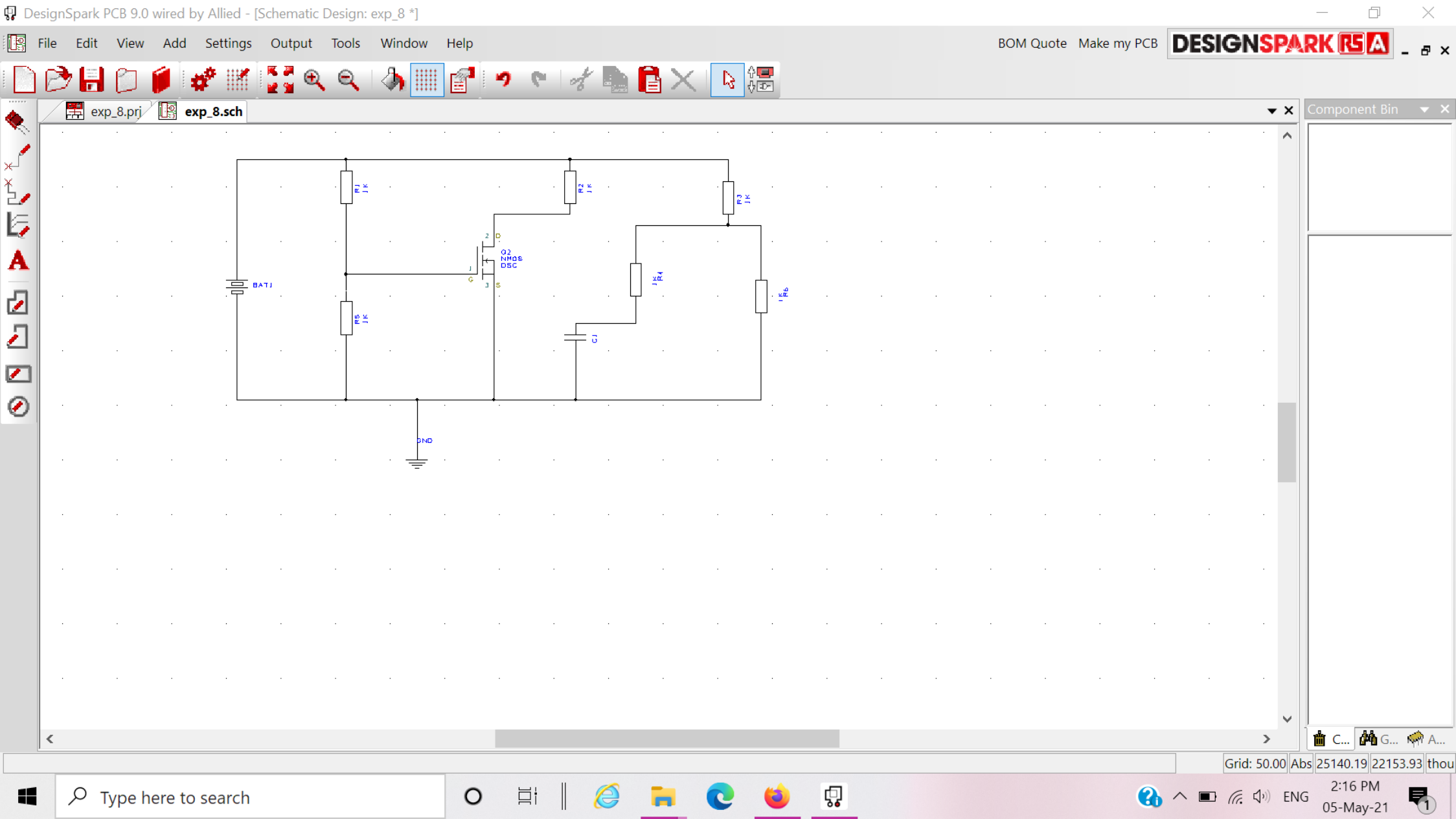
Name	Quantity	Library
Resistance	6	Designspark
Battery	1	Designspark
Capacitor	1	Designspark
Ground	1	Designspark
NMOS	1	Designspark

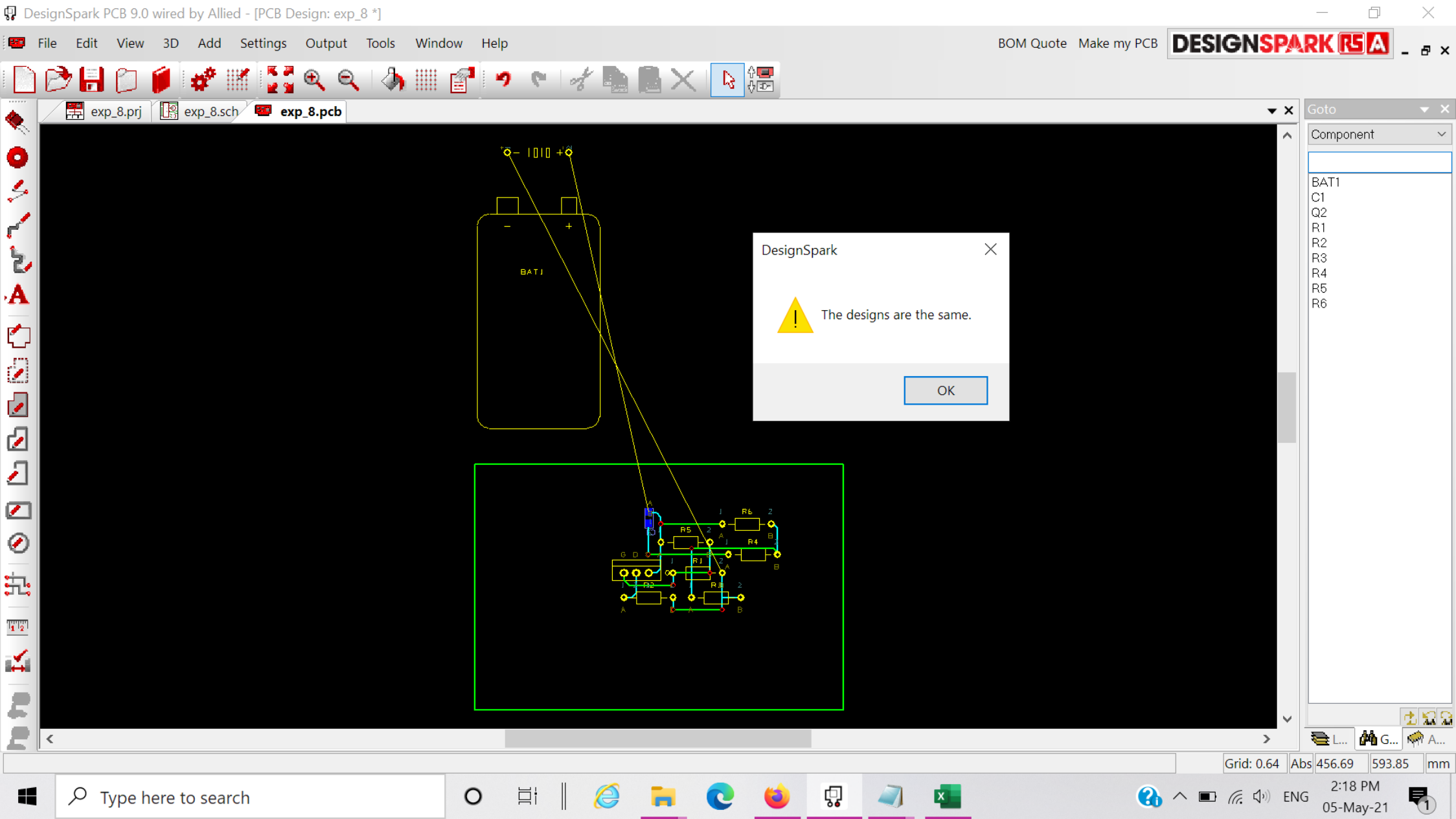
Description → We weren't able to use variable resistance and timers because of errors.

Schematic diagram →



Result → Both the design and schematic diagram have been made and verified.





File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do

Share

Clipboard: Paste, Copy, Cut, Format Painter

Font: Calibri, 11, Bold, Italic, Underline, Text Color, Background Color, Font Color

Alignment: Left, Center, Right, Justify, Merge & Center, Wrap Text

Number: General, Currency, Percentage, Decimal, Fraction

Styles: Conditional Formatting, Format as Table, Cell Styles

Cells: Insert, Delete, Format

Editing: Sum, Sort & Filter, Find & Select

A1 Report Written:

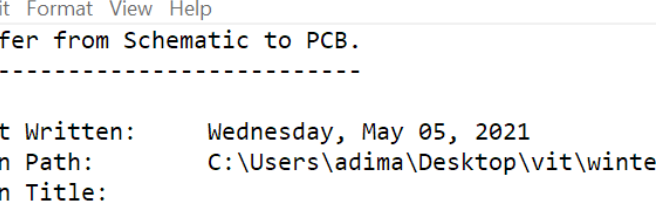
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
2	Project Path: C:\Users\adima\Desktop\vit\winter semester 2020\automated test lab\exp_8.prj																		
3	Design Path: C:\Users\adima\Desktop\vit\winter semester 2020\automated test lab\exp_8.pcb																		
4	Design Title:																		
5	Created: #####																		
6	Last Saved: #####																		
7	Editing Time: 0 min																		
8	Units: mm (precision 2)																		
9																			
10	Bill of Materials generated with DesignSpark PCB - www.DesignSpark.com/pcb																		
11	-----																		
12																			
13																			
14	Ref Name	Qty	Component	Value	Package	Manufacturer	MPN	RS Part Number	Other Part Description										
15	BAT1	1	Battery	9V	MISC				Battery										
16	C1	1	Capacitor			805			Capacitor										
17	Q2	1	NMOS		DSC				MOSFET										
18	R1	1	Resistor	1K	DSC				Resistor										
19	R2	1	Resistor	1K	DSC				Resistor										
20	R3	1	Resistor	1K	DSC				Resistor										
21	R4	1	Resistor	1K	DSC				Resistor										
22	R5	1	Resistor	1K	DSC				Resistor										
23	R6	1	Resistor	1K	DSC				Resistor										

exp_8 (Bill Of Materials)



Type here to search

2:18 PM
05-May-21



exp_8 (PCB - Transfer from Schematic to PCB.) - Notepad

File Edit Format View Help

Transfer from Schematic to PCB.

Report Written: Wednesday, May 05, 2021

Design Path: C:\Users\adima\Desktop\vit\winter sem

Design Title:

Created: 05-May-21 2:16:21 PM

Last Saved: 05-May-21 2:16:47 PM

Editing Time: 0 min

Units: mm (precision 2)

Net class "Signal" was not defined, but has been created.

Net class "Ground" was not defined, but has been created.

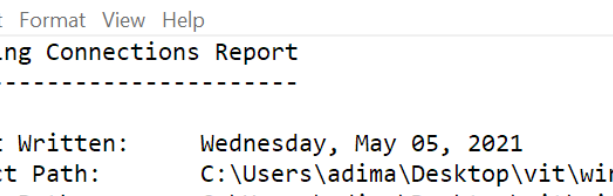
End Of Report.

```
exp_8 (PCB - Component Heights Report) - Notepad
File Edit Format View Help
Component Heights Report
-----

Report Written:      Wednesday, May 05, 202
Project Path:        C:\Users\adima\Desktop
Design Path:         C:\Users\adima\Desktop
Design Title:
Created:             05-May-21 2:16:21 PM
Last Saved:          05-May-21 2:16:49 PM
Editing Time:        1 min
Units:               mm (precision 2)

Name Height Side
-----
C1      -      Bottom
BAT1    -      Top
Q2      -      Top
R1      -      Top
R2      -      Top
R3      -      Top
R4      -      Top
R5      -      Top
R6      -      Top

End Of Report.
```



The screenshot shows a Notepad window titled "exp_8 (PCB - Dangling Connections Report) - Notepad". The menu bar includes "File", "Edit", "Format", "View", and "Help". The main text area displays a "Dangling Connections Report" with a dashed line separator. The report details are as follows:

Report Written:	Wednesday, May 05, 2021
Project Path:	C:\Users\adima\Desktop\vit\winter se
Design Path:	C:\Users\adima\Desktop\vit\winter se
Design Title:	
Created:	05-May-21 2:16:21 PM
Last Saved:	05-May-21 2:16:49 PM
Editing Time:	1 min
Units:	mm (precision 2)

The report concludes with "End Of Report." at the bottom. The status bar at the very bottom shows a left arrow and a greyed-out area.