

**FACULTY OF ELECTRICAL ENGINEERING  
UNIVERSITI TEKNOLOGI MARA**



**FINAL REPORT OF DIPLOMA PROJECT**

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**2-DIGIT BCD COUNTER**

**STUDENTS' NAME**

1. EKMAL HISHAM BIN ALIAS  
EE 111  
2000410683
2. MUHAMAD FAIZ BIN MD. DIN  
EE111  
2000411480

**SUPERVISORS' NAME**

CIK WAN SALHA SAIDON

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**Abstract**

The advancement of technology allows human to design a digital application like counter. Counter is an electric apparatus that counts. It is used to count in ascending. This project is a 2-digit BCD counter where BCD means Binary Coded Decimal. Each of us has been to places that use this device especially place that offer customer services such as bank or government agencies counter where counter are used. This project is used to count from number 00 to the maximum number of 99 and then return to number 00. With the invention of this gadget people do not have to queue. They only need to get their number and wait for their turn. With this device they can save time and energy. In today life, time is very important. When they already get their number, they can decide either to wait or doing something else.

**Contents:**

	Acknowledgement	i
	Abstract	ii
<b>Chapter 1.0</b>	<b>Introduction</b>	<b>1 - 2</b>
	1.1 Objective	1
	1.2 List of Components and Tools	2
<b>Chapter 2.0</b>	<b>Description of the Project</b>	<b>3-10</b>
	2.1 Decoder	3 - 4
	2.2 Counter	4 - 5
	2.3 Resistor	5 - 6
	2.4 Seven-segment Display	6-7
	2.5 Input	7-8
	2.6 Block Diagram	8
	2.7 Circuit Diagram	9-10
<b>Chapter 3.0</b>	<b>Practical</b>	<b>11-15</b>
	3.1 Hardware development	11
	3.2 Printed Circuit Board Material	11
	3.3 Classification of Printed Circuit Boards	12-13
	3.4 Printed Circuit Board Drilling and Punching	13-14
	3.5 Soldering Process	14
	3.6 Troubleshooting	14-15
<b>Chapter 4.0</b>	<b>Conclusion and Recommendation</b>	<b>16</b>
	4.1 Conclusion	16
	4.2 Recommendation	16
<b>Chapter 5.0</b>	<b>Reference and Appendix</b>	<b>17-44</b>
	5.1 Reference	17
	5.2 Appendix	18-44

## 1.0 Introduction

This project is a counter that used to count numbers. This project practically can save time and energy. This project can be described as a device that used to count from number 00 to number 99.

## 1.1 Objectives

- 1 Know how to analyze the circuit
- 2 Know the function of all devices in the circuit
- 3 Know how to do troubleshooting when occur
- 4 Know how to integrate the theory learned in class into the project.