

## REQUIREMENTS:

### Introduction:

Seven-segment display is a form of electronic display used for displaying alpha-numeric characters. A seven-segment display is a set of seven LEDs elements, arranged to form a figure of 8. Each of the LEDs is turned ON and OFF and the combination of LEDs which are ON forms a character. If all elements are activated, the display shows a numeral 8. Numbers from 0-9 and few alphabets can be displayed.

### Advantages:

- 1.Low cost
- 2.Simple design
- 3.Reliable
- 4.Efficient

### Disadvantages:

- 1.Limited characters
- 2.Difficulty interfacing with controllers

### Applications:

- 1.Digital clocks
- 2.Microwave ovens
- 3.Electronic meters
- 4.Odometers
- 5.Digital calculators

## 6.Clock radios

Detail requirements:

High level requirements:

ID	Description	Status (Implemented/future)
HR.01	Can be able to display numbers from 0-9	Implemented
HR.02	Can display alphabets from A-F	Future
HR.03	Can be applied for double digits	Implemented

Low level requirements:

ID	Description	Status (Implemented/Future)
LR.01	Can display time in digital clocks	Implemented
LR.02	Can be able to display meter readings	Implemented
LR.03	Can display numbers in calculators	Implemented