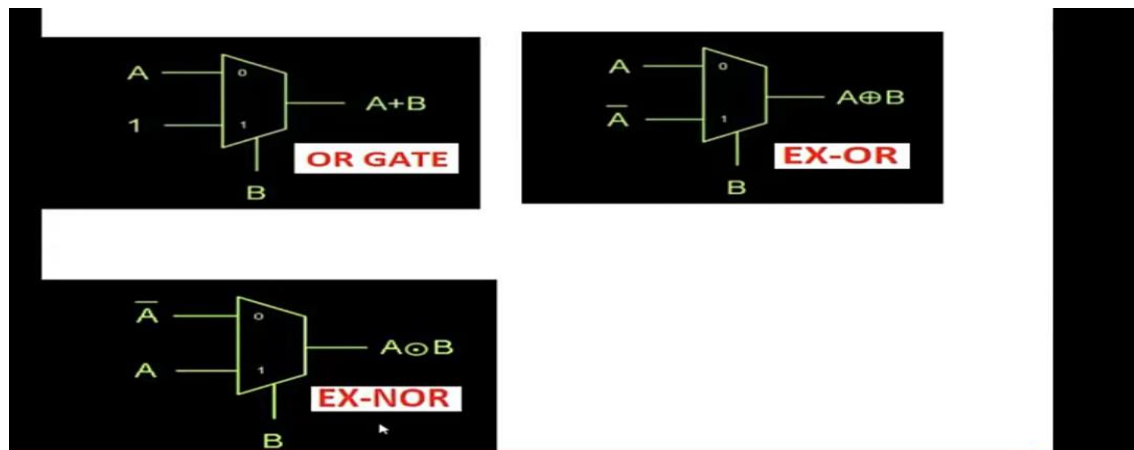


DAILY ASSESSMENT FORMAT

Date: 28/05/20	Name: Yashaswini R
Course: DSP	USN: 4AL17EC098
Topic: Boolean algebra, MUX.BCD to 7segment display	Semester & section: 6 th , B

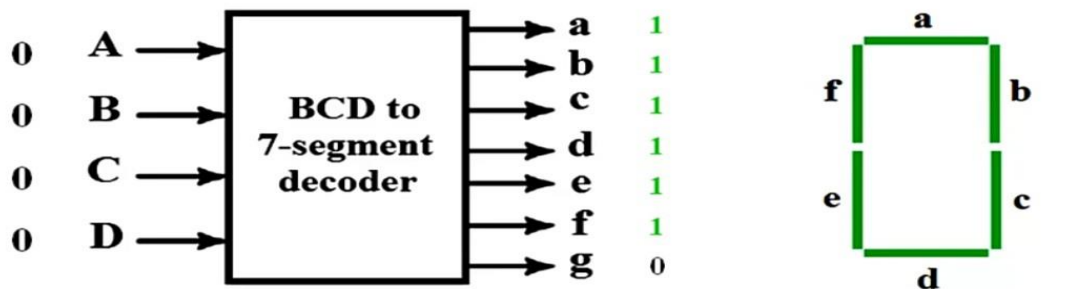
FORENOON SESSION

Image of session



MUX to LOGIC gateS conversion

BCD to 7-segment decoder



A	B	C	D	a	b	c	d	e	f	g
0	0	0	0	1	1	1	1	1	1	0

BCD to 7 segment decoder

Report

Boolean equations for digital circuits :

- Digital Circuits - Boolean algebra. Boolean algebra is an algebra, which deals with binary numbers & binary variables. Hence, it is also called as Binary Algebra or logical Algebra.
- The variables used in this algebra are also called as Boolean variables.

Combinational circuits: Conversion of MUX and Decoders to logic gates:

- A combination circuit is one that has a "combination" of series and parallel paths for the electricity to flow. Its properties are a combination of the two. In this example, the parallel section of the circuit is like a sub-circuit and actually is part of an over-all series circuit.
- In computing and electronic systems, binary-coded decimal (BCD) is a class of binary encodings of decimal numbers where each digit is represented by a fixed number of bits, usually four or eight. Sometimes, special bit patterns are used for a sign or other indications (e.g. error or overflow).
- Binary Coded Decimal (BCD or "8421" BCD) numbers are made up using just 4 data bits (a nibble or half a byte) similar to the Hexadecimal numbers we saw in the binary tutorial, but unlike hexadecimal numbers that range in full from 0 through to F, BCD numbers only range from 0 to 9, with the binary number patterns of 1010 through to 1111 (A to F) being invalid inputs for this type of display and so are not used

Design of 7 segment decoder with common anode display:

- The use of packed BCD allows two BCD digits to be stored within a single byte (8-bits) of data, allowing a single data byte to hold a BCD number in the range of 00 to 99. An example of the 4-bit BCD input (0100) representing the number "4".

Date: 28/05/20	Name: Yashaswini R
Course: Python	USN: 4AL17EC098
Github Repository: Yashaswini	Semester & section: 6th , B

FORENOON SESSION DETAILS

Image of session:

Report:

Build a Desktop Database Application:

CREATE DATABASE

A Database is defined as a structured set of data. So, in SQL the very first step to store the data in a well structured manner is to create a database. The CREATE DATABASE statement is used to create a new database in SQL

- This Application was about creating Virtual book store by creating the window .
- The program was divided into two parts Called frontend.py and backend.py and it creates a database in which all the books are stored in database