

DAILY ASSESSMENT FORMAT

Date:	28-05-2020	Name:	Neha T
Course:	Logic Design	USN:	4AL18EC035
Topic:	1.Analysis of clocked sequential circuits 2.Digital clock design	Semester & Section:	4th sem A sec
Github Repository:	Neha-T		

FORENOON SESSION DETAILS

Image of session

Analysis of Clocked Sequential Circuits (with D Flip Flop)

STEP: 1 Find out the i/p z o/p

egⁿ

$$D_A = \overline{X}Q_A + Q_B$$

$$D_B = \overline{Q_A}Q_B$$

Analysis of Clocked Sequential Circuits (with D Flip Flop)

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P.S.

Q_A	Q_B	x	Q_A^+	Q_B^+	y
0	0	0	0	0	1
0	0	1	0	0	0
0	1	0	1	1	0
0	1	1	1	1	0
1	0	0	0	0	1
1	0	1	1	0	1
1	1	0	1	0	0
1	1	1	1	0	1

N.S.

$$Q_B^+ = DB = \overline{A} A Q_B$$

$$= 1 \cdot 0 = 0$$

$$y = 1 \cdot 1 + 0 \cdot 0 = 1$$

$$y = 0 \cdot 1 + 1 \cdot 0 = 0$$

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➤ **Analysis of Clocked sequential circuits**

- Under this session I learnt how to approach sequential circuits
- Analysis of clocked sequential circuits with D flip flop were discussed under this session
- Some flip-flop have asynchronous inputs that are used to force the flip flop to a particular state independently of the clock
- The input that sets the flip flop to 1 - present or direct set
- The input that clears the flip flop to 0 - clear or direct reset
- When power is turned on in a digital system, the state of the flip flop is unknown
- The direct inputs are useful for bringing all the flip flops in the system to a known starting state prior to the clocked operation
- Basically there are 3 steps
 - ★ Find out the input and output equations
 - ★ State table
 - ★ State diagram

➤ **Digital clock design**

- A digital clock is a type of clock that displays the time digitally as opposed to an analogue clock, where the time is indicated by the positions of rotating hands.
- Digital clocks are often associated with electronic drives, but the "digital" description refers only to the display, not to the drive mechanism.
- Construction -
 - ★ Digital clocks typically use the 50 or 60 hertz oscillation of AC power or a 32,768 hertz crystal oscillator as in a quartz clock to keep time.
 - ★ Most digital clocks display the hour of the day in 24-hour format; in the United States and a few other countries, a commonly used hour sequence option is 12-hour format (with some indication of AM or PM).
 - ★ Some timepieces, such as many digital watches, can be switched between 12-hour and 24-hour modes.
 - ★ Emulations of analog-style faces often use an LCD screen, and these are also sometimes described as "digital"

Date: 28-05-2020
Course: Python
Topic: Object Oriented Programming

Name: Neha T
USN: 4AL18EC035
Semester 4th sem A sec
& Section:

AFTERNOON SESSION DETAILS

Image of session

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Course content

- 189. Object Oriented Programming Explained 5min
- 190. Turning this Application into OOP Style, Part 1 13min
- 191. Turning this Application into OOP Style, Part 2 14min
- 192. Creating a Bank Account Object 21min
- 193. Inheritance 12min
- 194. OOP Glossary 8min
- 195. GUI in OOP Design (Practice) 1min
- 196. Solution 1min

About this course

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➤ Object Oriented Programming

- **Briefing of Object Oriented Programming**

- ★ **Type of computer programming (software design) in which programmers define the data type of a data structure, and also the types of operations (functions) that can be applied to the data structure**
- ★ **Objects can inherit characteristics from other objects**

- **Under this session**

- ★ **Turning this Application into OOP style**
- ★ **Creating a Bank Account Object**
- ★ **Inheritance**
- ★ **OOP Glossary**
- ★ **Practicing GUI in OOP Design**

were discussed