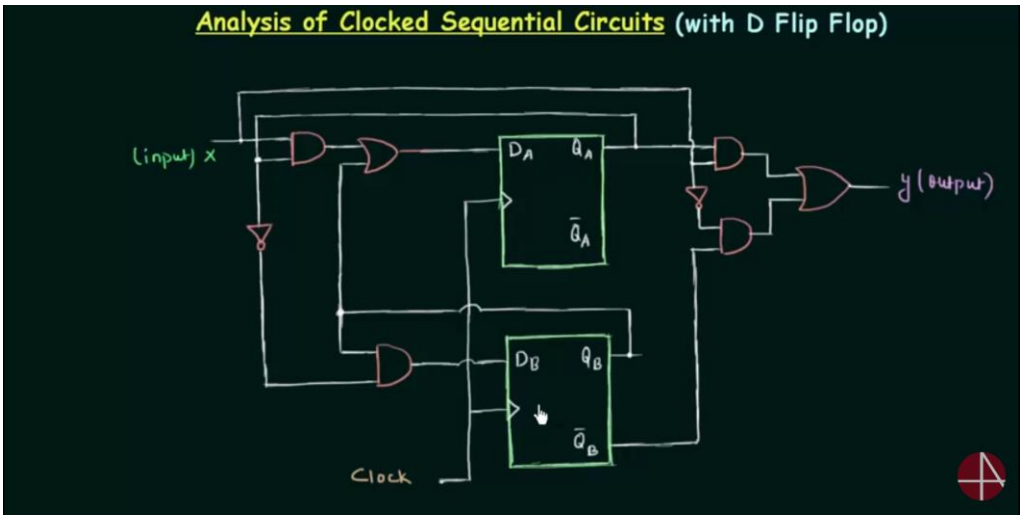
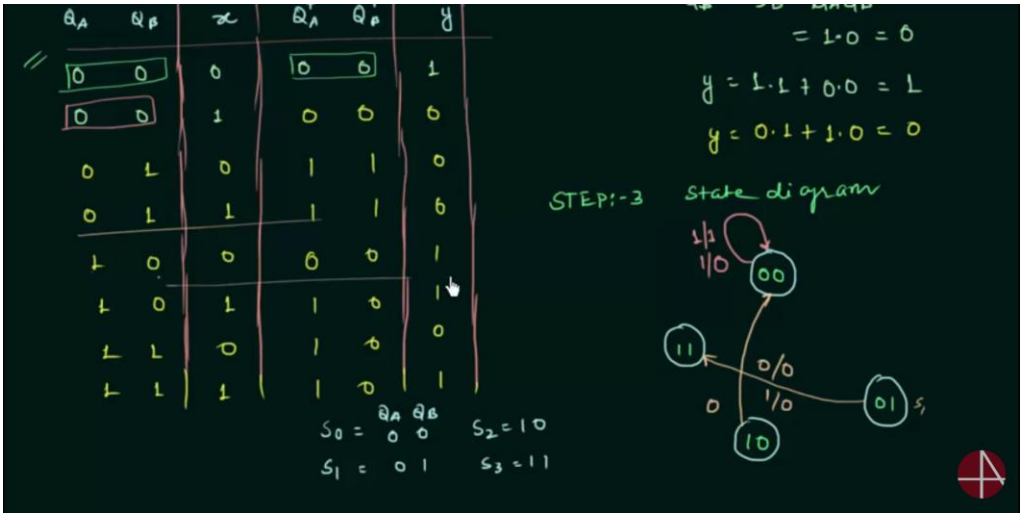
DAILY ASSESSMENT FORMAT

Date:	**29/05/2020**	**Name:**	**Lavanya B**
Course:	**Logic design**	**USN:**	**4al17ec043**
Topic:	**Analysis of clocked sequential circuits Digital clock design**	**Semester & Section:**	**6th A**
Github Repository:	**Lavanya-B**		

FORENOON SESSION DETAILS

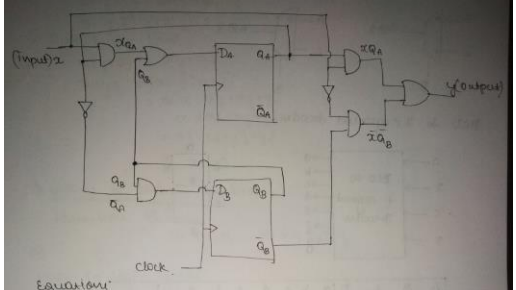
Image of session





Report

Analysis of clocked Sequential ckt 29/05/2020.



Equations:

$D_A = xQ_A + Q_B$

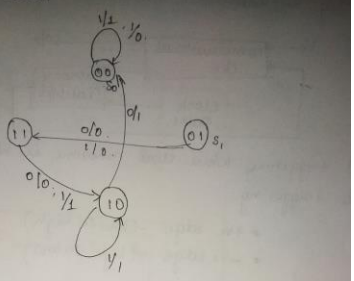
$D_B = \bar{Q}_A Q_B$

$y = \bar{x}\bar{Q}_B + xQ_A$

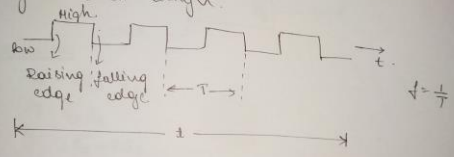
State table.

P.S.			N.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

State diagram.



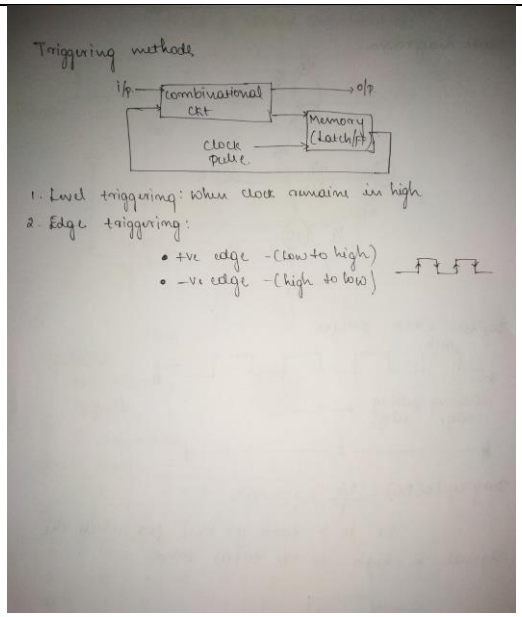
Digital clock design.



$f = \frac{1}{T}$

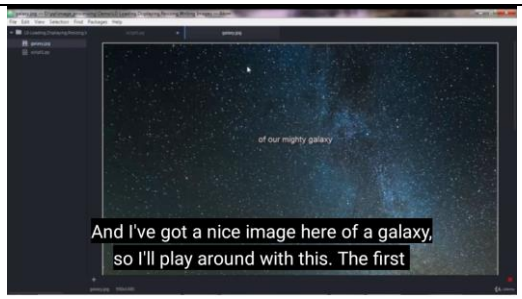
Duty cycle (DC) = $\frac{t_1/2}{T} = \frac{1}{2} = 50\%$

D is a Ratio of time for which the signal is high to the total time.



Date:	**29/05/2020**	**Name:**	**Lavanya B**
Course:	**Python**	**USN:**	**4al17ec043**
Topic:	**Python for image and video processing with openCV**	**Semester & Section:**	**6th A**

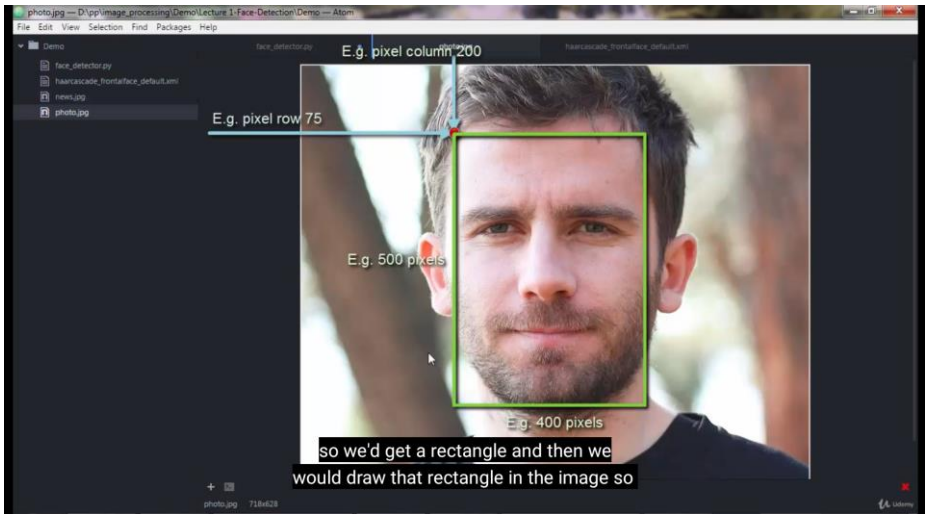
AFTERNOON SESSION DETAILS
Image of session



Lectures More

Section 25 - Python for Image and Video Processing with OpenCV

197	Introduction Video - 02:29 mins	
198	Installing the Library Article	
199	Loading, Displaying, Resizing, and Writing Imag... Video - 14:00 mins - Resources (1)	
200	Batch Image Resizing (Practice) Article - Resources (1)	
201	Solution Article	
202	Solution with Explanations Video - 04:29 mins	
203	Face Detection Video - 19:38 mins - Resources (1)	
204	Capturing Video Video - 19:45 mins	



Report –

Python for image and video processing with openCV

Processing a video means, performing operations on the video frame by frame. Frames are nothing but just the particular instance of the video in a single point of time. We may have multiple frames even in a single second. Frames can be treated as similar to an image.

Installing the library

1. Open the command line and type:

```
pip install opencv-python
```

2. Then open a Python session and try:

```
import cv2
```

3. If you get no errors, that means you installed OpenCV

Loading, Displaying, Resizing and writing the image

Batch image resizing

```
import cv2
import glob

images=glob.glob("*.jpg")

for image in images:
    img=cv2.imread(image,0)
    re=cv2.resize(img,(100,100))
    cv2.imshow("Hey",re)
    cv2.waitKey(500)
    cv2.destroyAllWindows()
    cv2.imwrite("resized_"+image,re)
```

Face detection

Capturing video