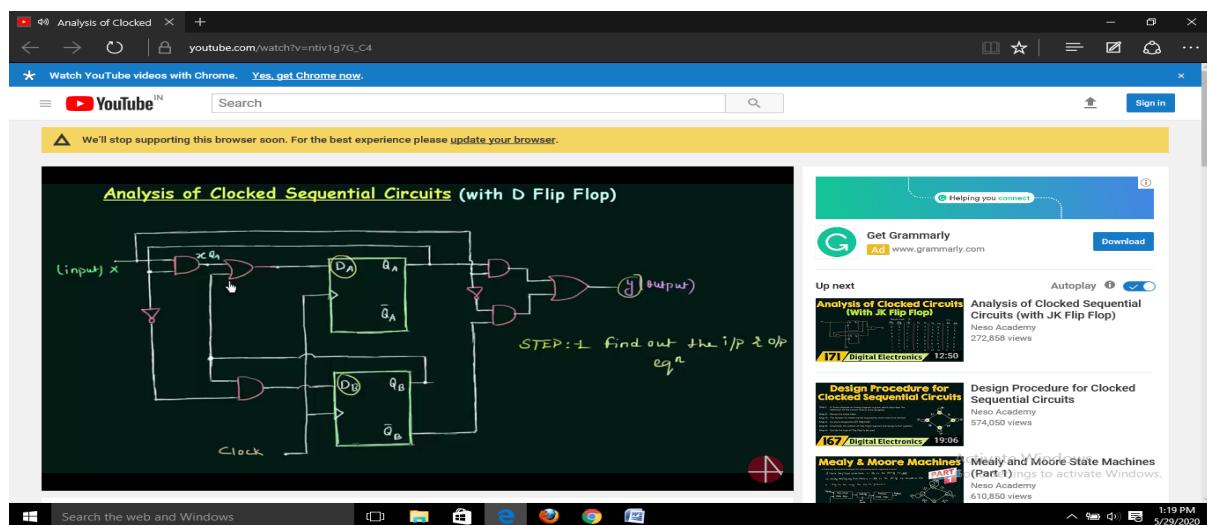
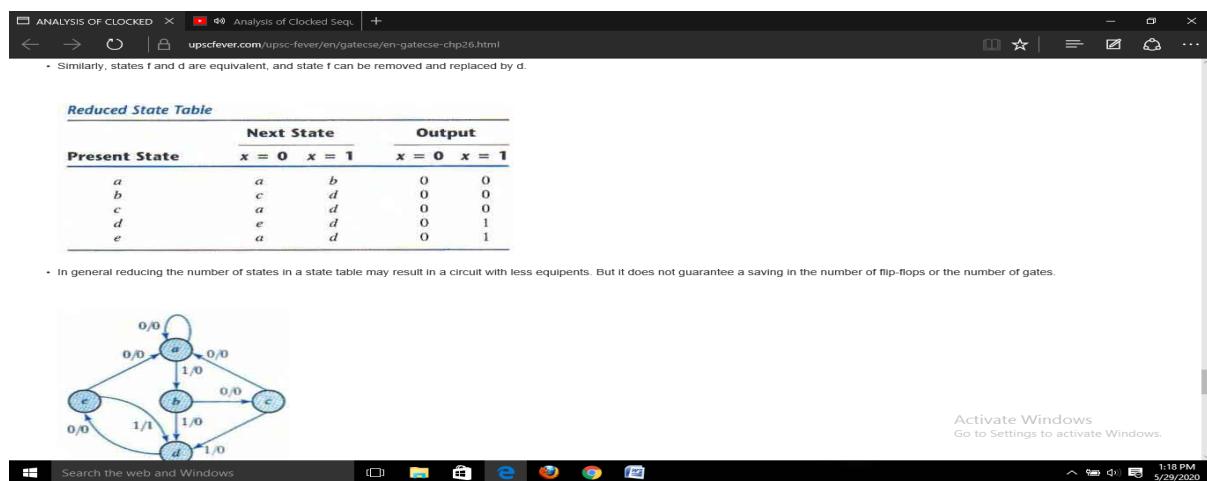
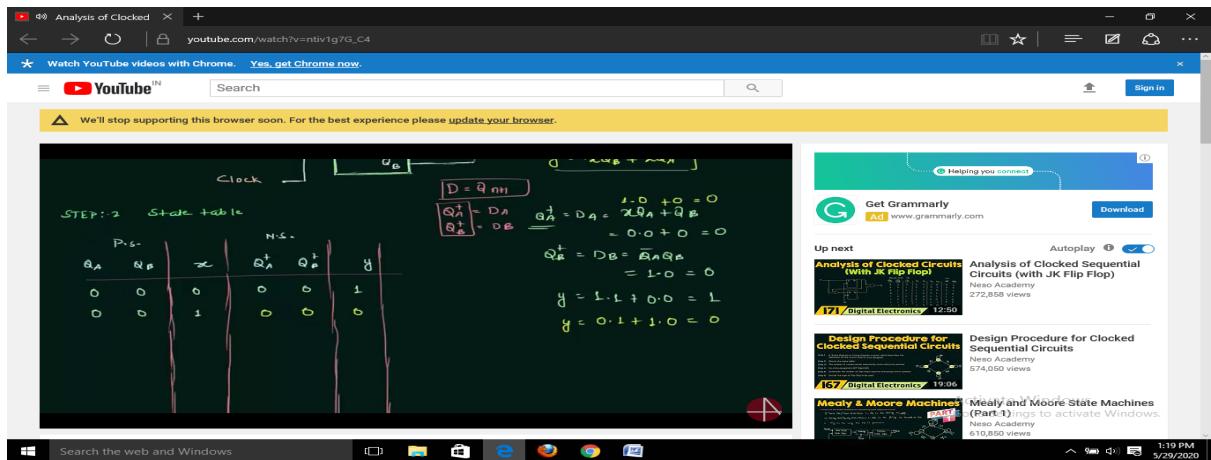


Date:	29-05-2020	Name:	Roshni A B
Course:	Logic design	USN:	4AL17EC080
Topic:	Analysis of clocked sequential circuits, Digital clock design	Semester and section	6 th sem 'B' section
Github repository:	roshni-online		



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W Digital clock - Wikipedia X

en.wikipedia.org/wiki/Digital_clock

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Digital clock

From Wikipedia, the free encyclopedia

This article is about the appliance. For timing reference for digital audio, see [Word clock](#).

 This article needs additional citations for verification. Please help improve this article by adding citations to reliable sources. Unsourced material may be challenged and removed.

Find sources: "Digital clock" – news · newspapers · books · scholar · JSTOR (January 2010) (Learn how and when to remove this template message)

A digital clock is a type of clock that displays the time digitally (i.e. in numerals or other symbols), 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. (Both analogue and digital clocks can be driven either mechanically or electronically, but "clockwork" mechanisms with digital displays are rare).

Contents [hide]

- 1 History
- 2 Construction
- 3 Displays
 - 3.1 Setting
- 4 Uses of digital clocks
- 5 References


Basic digital alarm clock without a radio. The mark in the top-left of the display indicates that the time is 4:00pm, not 4:00am.
Activate Windows
Go to Settings to activate Windows.

Search the web and Windows 1:28 PM 5/29/2020



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29/05/2020

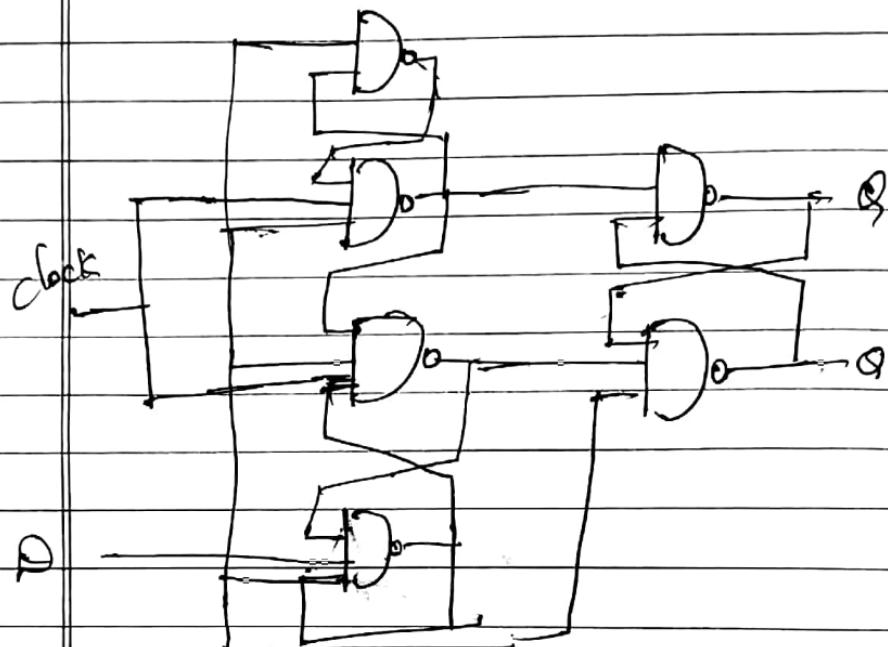
Logic Design

Day - 2

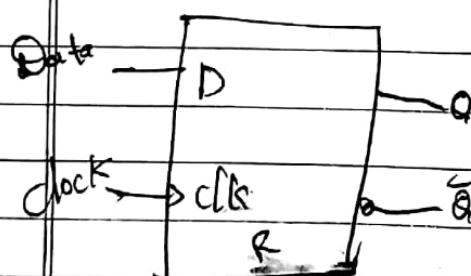
Analysis of clocked Sequential Circuits and Digital clock design

Analysis of clocked Sequential circuits

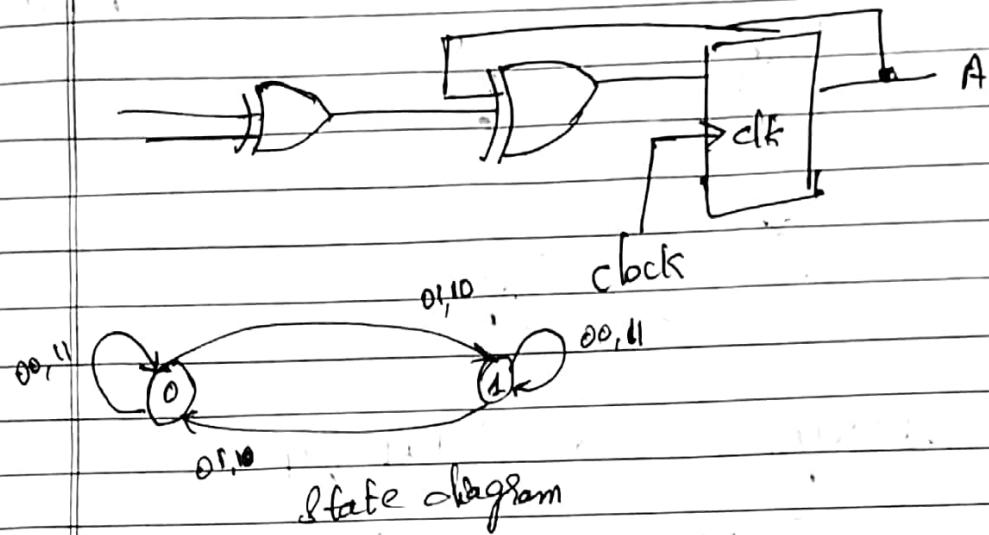
* Positive edge triggered Θ flip-flop



Reset circuit diagram



Analysis of D flip flop



Present State	Inputs	Next State
A	X Y	A.
0	0 0	0
0	0 1	1
0	1 0	1
0	1 1	1
1	0 0	0
1	0 1	1
1	1 0	0
1	1 1	1

Analysis with JK flip-flop

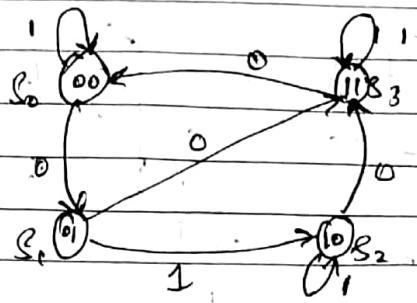
$$J_A = B; K_A = Bx'$$

$$J_B = X'; K_B = A'x + Ax' = A \oplus x$$

$$= A(t+1) = JA' + K'A$$

$$= B(t+1) = JB' + K'B$$

$$= B(t+1) = X'B + (A \oplus X)'B = B'X' + ABX + A'BX'$$



Analysis with T flip-flops

$$= Q(t+1) = T \oplus Q = TQ + TQ'$$

$$= T_A = BX$$

$$= T_B = X'$$

$$= Y = AB$$

$$= A(t+1) = (BX)'A + (BX)A' = AB' + AX + A'BX$$

$$= B(t+1) = X \oplus B$$

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.

1 2 3 4 5 6 7 8 9 10 11 12 13 14

Date:	29-05-2020	Name:	Roshni A B
Course:	Python programming	USN:	4AL17EC080
Topic:	Object oriented programming	Semester and section:	6 th sem and B sec

fronted.py — D:\Dropbox\pp\classes\Demo — Atom

189. Object Oriented Programming Explained

```

14=Label(window,text="ISBN")
14.grid(row=1,column=2)

title_text=StringVar()
e1=Entry(window,textvariable=title_text)
e1.grid(row=0,column=1)

author_text=StringVar()
e2=Entry(window,textvariable=author_text)
e2.grid(row=0,column=3)

year_text=StringVar()
e3=Entry(window,textvariable=year_text)
e3.grid(row=1,column=1)

isbn_text=StringVar()
e4=Entry(window,textvariable=isbn_text)
e4.grid(row=1,column=3)

list1=Listbox(window, height=6,width=35)
list1.grid(row=2,column=0,rowspan=6,columnspan=2)

sb1=Scrollbar(window)
sb1.grid(row=2,column=2,rowspan=6)

list1.configure(yscrollcommand=sb1.set)
sb1.configure(command=list1.yview)

```

Activate Windows
Go to Settings to activate Windows.

fronted.py 74:35

CRLF UTF-8 (Python)

acc.py — D:\Dropbox\pp\classes\Demo — Atom

192. Creating a Bank Account Object

```

class Account:
    def __init__(self, filepath):
        self.filepath=filepath
        with open(filepath, 'r') as file:
            self.balance=int(file.read())

    def withdraw(self, amount):
        self.balance=self.balance - amount

    def deposit(self, amount):
        self.balance=self.balance + amount

    def commit(self):
        with open()

account=Account("account//balance.txt")
print(account.balance)
account.withdraw(100)

```

PS D:\Dropbox\pp\classes\Demo> python account\acc.py
1000
PS D:\Dropbox\pp\classes\Demo> python account\acc.py
1000
900
PS D:\Dropbox\pp\classes\Demo> python account\acc.py
1000
900
PS D:\Dropbox\pp\classes\Demo>

Activate Windows
Go to Settings to activate Windows.

Pause

1.25x 1639 / 21:06 acc.py 4:31 (1, 8)



Edit with WPS Office

```
29         self.title_text=StringVar()
30         self.e1=Entry(window,textvariable=self.title_text)
31         self.e1.grid(row=0,column=1)
32
33         self.author_text=StringVar()
34         self.e2=Entry(window,textvariable=self.author_text)
35         self.e2.grid(row=0,column=3)
36
37         self.year_text=StringVar()
38         self.e3=Entry(window,textvariable=self.year_text)
39         self.e3.grid(row=1,column=1)
40
41         self.isbn_text=StringVar()
42         self.e4=Entry(window,textvariable=self.isbn_text)
43         self.e4.grid(row=1,column=3)
44
45         self.list1=Listbox(window, height=6,width=35)
46         self.list1.grid(row=2,column=0, rowspan=6, columnspan=2)
47
48         sb1=Scrollbar(window)
49         sb1.grid(row=2,column=2, rowspan=6)
50
51         self.list1.configure(yscrollcommand=sb1.set)
52         sb1.configure(command=self.list1.yview)
53
54         self.list1.bind('<<ListboxSelect>>',self.get_selected_row)
55
56         b1=Button(window,text="View all", width=12,command=self.view_all)
57         b1.grid(row=2,column=3)
58
59         b2=Button(window,text="Search entry", width=12,command=self.search_entry)
60         b2.grid(row=3,column=3)
61
62         b3=Button(window,text="Add entry", width=12,command=self.add_entry)
63         b3.grid(row=4,column=3)
64
65         b4=Button(window,text="Update selected", width=12,command=self.update_entry)
66         b4.grid(row=5,column=3)
67
68         b5=Button(window,text="Delete selected", width=12,command=self.delete_entry)
69         b5.grid(row=6,column=3)
```

Activate Windows
Go to Settings to activate Windows.



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29/05/2020

Day -10

Object Oriented Programming

- * Object oriented programming Explained
- * Turning this application into OOP Style part 1
- * Turning this Application into OOP Style part 2
- * Creating a Bank Account object
- * Inheritance
- * OOP Glossary
- * GUI in oop Design (practice)
- * Solution

