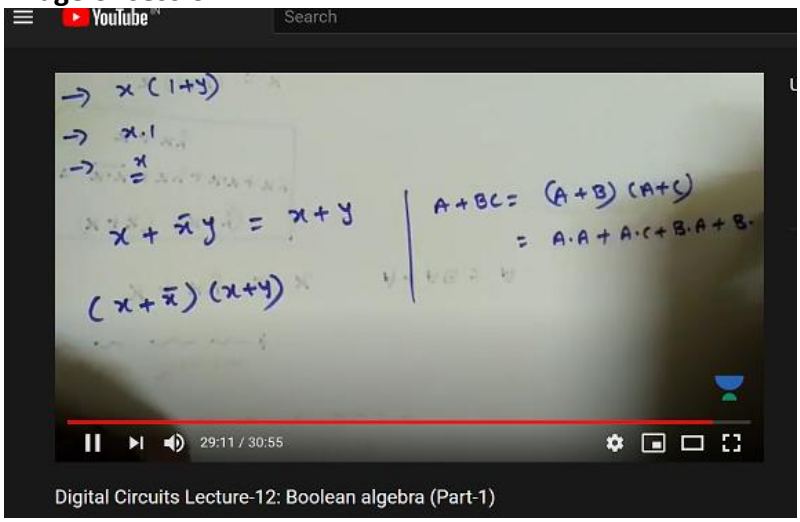
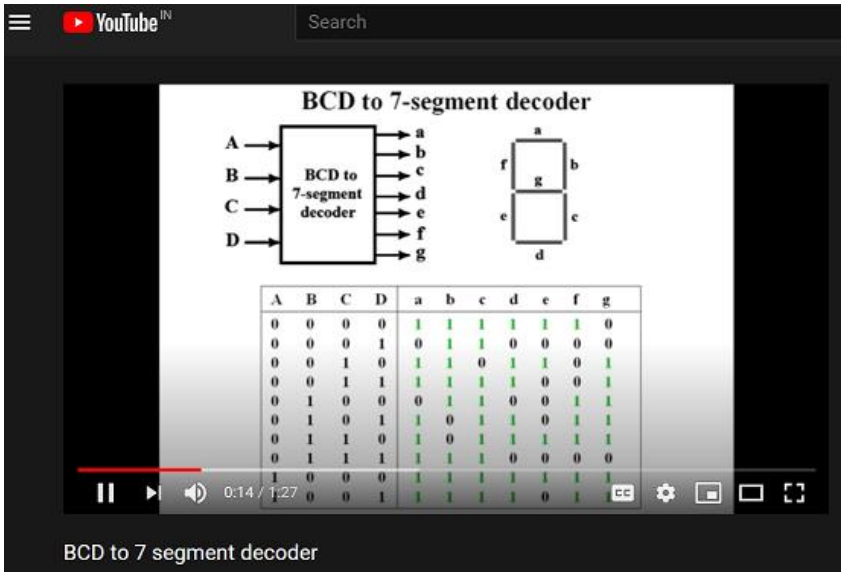
DAILY ASSESSMENT FORMAT

Date:	**28/may/2020**	**Name:**	**Sushmitha r naik**
Course:	**Logic Design**	**USN:**	**4al17ec090**
Topic:	**1.Boolean equations for digital circuits. Combinational circuits: Conversion of MUX and Decoders to logic gates.** **2. design of 7 segment decoder with common anode display**	**Semester & Section:**	**6th b**
Github Repository:	**Sushmitha_naik**		

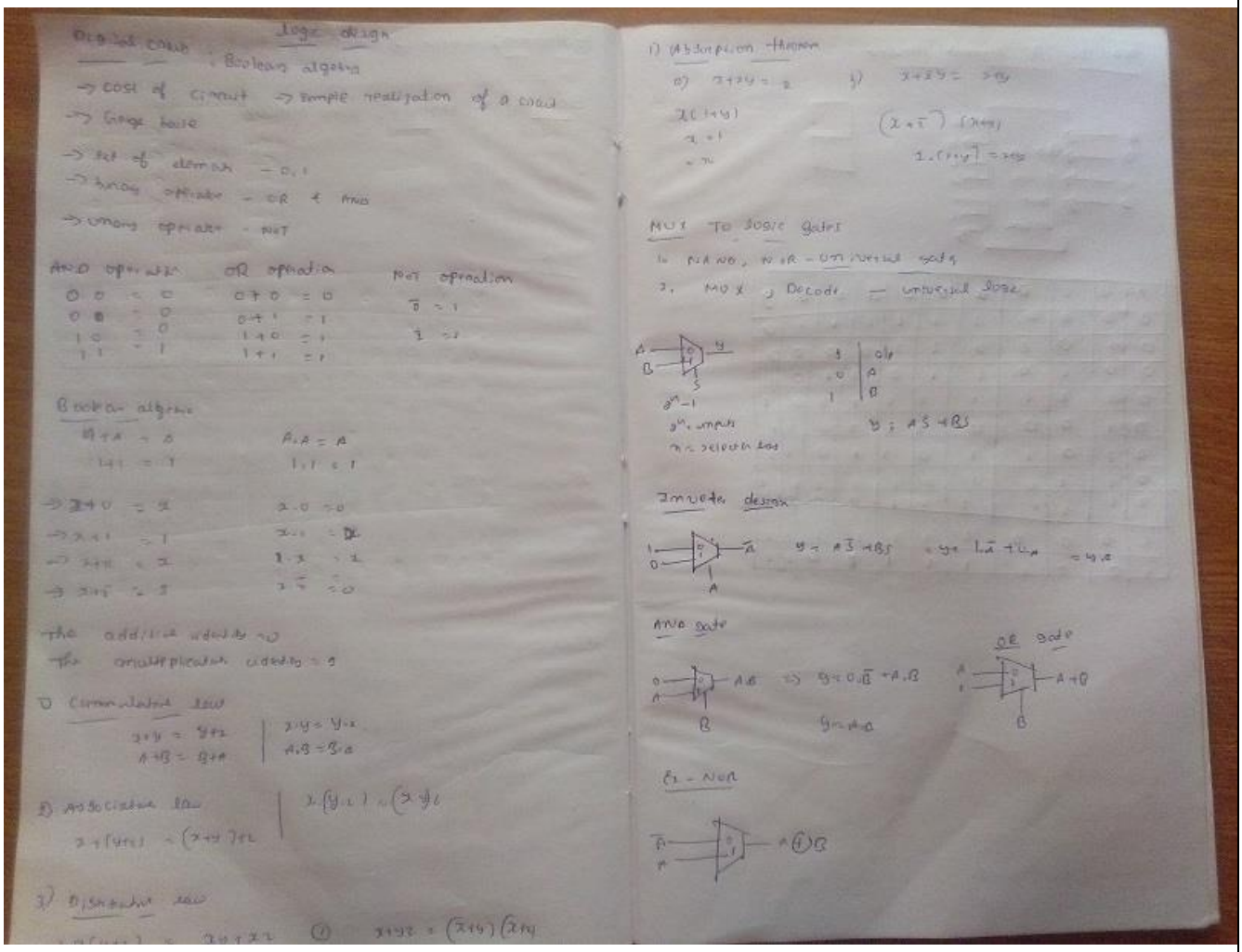
FORENOON SESSION DETAILS

Image of session

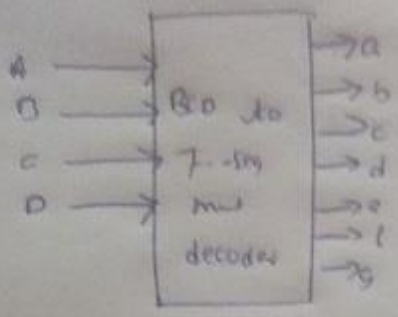


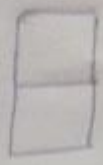


Report – Report can be typed or hand written for up to two pages.



BCD to 7 segment decoder



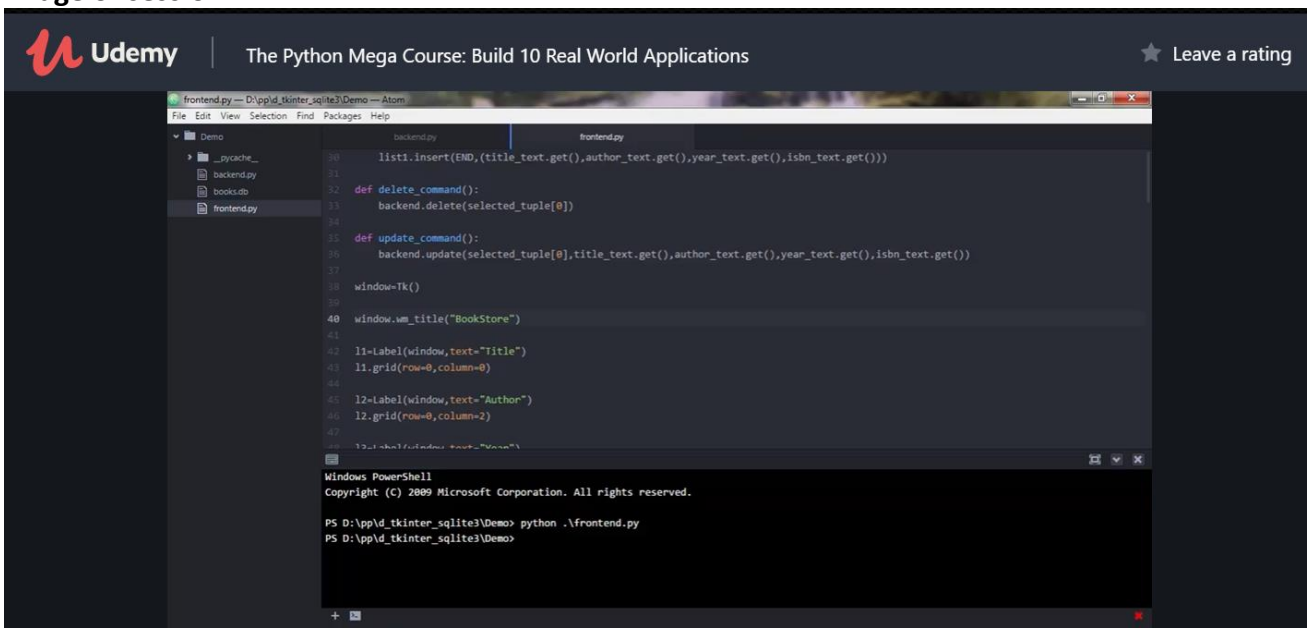


A	B	C	D	a	b	c	d	e	f	g
0	0	0	0	1	1	1	1	1	1	0
0	0	0	1	0	1	1	0	0	0	0
0	0	1	0	1	1	0	1	1	0	1
0	0	1	1	1	1	1	1	0	0	1
0	1	0	0	0	1	1	0	0	1	1
0	1	0	1	1	0	1	1	0	1	1
0	1	1	0	1	0	1	1	1	1	1
0	1	1	1	1	1	1	0	0	0	0
1	0	0	0	1	1	1	1	1	1	1
1	0	0	1	1	1	1	1	0	1	1

Date:	**28/may/2020**	**Name:**	**Sushmitha R naik**
Course:	**python**	**USN:**	**4al17ec090**
Topic:	**Build a Desktop Database Application**	**Semester&Section :**	**6th b**
Git hub repository	**Sushmitha_naik**		

AFTERNOON SESSION DETAILS

Image of session



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Application 5: Build a Desktop Database Application

I learnt about how to build a desktop database Application

Front end interface

```
from tkinter import *
import backend

def get_selected_row(event):
   global selected_tuple
   index=list1.curselection()[0]
   selected_tuple=list1.get(index)
   e1.delete(0,END)
   e1.insert(END,selected_tuple[1])
   e2.delete(0,END)
   e2.insert(END,selected_tuple[2])
   e3.delete(0,END)
   e3.insert(END,selected_tuple[3])
   e4.delete(0,END)
   e4.insert(END,selected_tuple[4])

def view_command():
   list1.delete(0,END)
   for row in backend.view():
      list1.insert(END,row)

def search_command():
   list1.delete(0,END)
   for row in backend.search(title_text.get(),author_text.get(),year_text.get(),isbn_text.get()):
      list1.insert(END,row)

def add_command():
   backend.insert(title_text.get(),author_text.get(),year_text.get(),isbn_text.get())
   list1.delete(0,END)
   list1.insert(END,(title_text.get(),author_text.get(),year_text.get(),isbn_text.get()))

def delete_command():
   backend.delete(selected_tuple[0])

def update_command():

backend.update(selected_tuple[0],title_text.get(),author_text.get(),year_text.get(),isbn_text.get()
)

window=Tk()

window.wm_title("BookStore")
```

```
l1=Label(window,text="Title")
l1.grid(row=0,column=0)

l2=Label(window,text="Author")
l2.grid(row=0,column=2)

l3=Label(window,text="Year")
l3.grid(row=1,column=0)

l4=Label(window,text="ISBN")
l4.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)

list1.bind('<<ListboxSelect>>',get_selected_row)

b1=Button(window,text="View all", width=12,command=view_command)
b1.grid(row=2,column=3)

b2=Button(window,text="Search entry", width=12,command=search_command)
b2.grid(row=3,column=3)
```

```
b3=Button(window,text="Add entry", width=12,command=add_command)
b3.grid(row=4,column=3)

b4=Button(window,text="Update selected", width=12,command=update_command)
b4.grid(row=5,column=3)

b5=Button(window,text="Delete selected", width=12,command=delete_command)
b5.grid(row=6,column=3)

b6=Button(window,text="Close", width=12,command=window.destroy)
b6.grid(row=7,column=3)

window.mainloop()
```

back end interface

```
import sqlite3

def connect():
   conn=sqlite3.connect("books.db")
   cur=conn.cursor()
   cur.execute("CREATE TABLE IF NOT EXISTS book (id INTEGER PRIMARY KEY, title text, author
text, year integer, isbn integer)")
   conn.commit()
   conn.close()

def insert(title,author,year,isbn):
   conn=sqlite3.connect("books.db")
   cur=conn.cursor()
   cur.execute("INSERT INTO book VALUES (NULL,?,?,?,?)",(title,author,year,isbn))
   conn.commit()
   conn.close()
   view()

def view():
   conn=sqlite3.connect("books.db")
   cur=conn.cursor()
   cur.execute("SELECT * FROM book")
   rows=cur.fetchall()
   conn.close()
   return rows

def search(title="",author="",year="",isbn=""):
   conn=sqlite3.connect("books.db")
```

```
    cur=conn.cursor()
    cur.execute("SELECT * FROM book WHERE title=? OR author=? OR year=? OR isbn=?",
(title,author,year,isbn))
    rows=cur.fetchall()
    conn.close()
    return rows

def delete(id):
    conn=sqlite3.connect("books.db")
    cur=conn.cursor()
    cur.execute("DELETE FROM book WHERE id=?",(id,))
    conn.commit()
    conn.close()

def update(id,title,author,year,isbn):
    conn=sqlite3.connect("books.db")
    cur=conn.cursor()
    cur.execute("UPDATE book SET title=?, author=?, year=?, isbn=? WHERE
id=?",(title,author,year,isbn,id))
    conn.commit()
    conn.close()

connect()
insert("The Sun","John Smith",1918,913123132)
delete(3)
update(4,"The moon","John Smooth",1917,99999)
print(view())
print(search(author="John Smooth"))
```