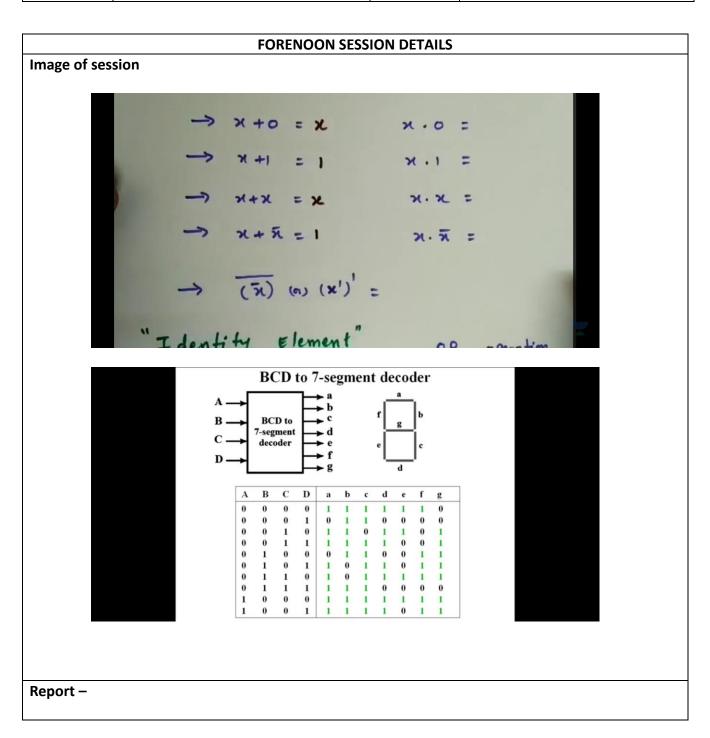
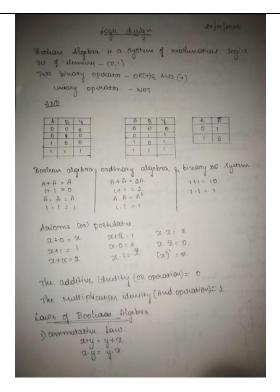
## **DAILY ASSESSMENT FORMAT**

Date:	28/05/2020	Name:	Lavanya B
Course:	Logic design	USN:	4al17ec043
Topic:	Boolean Algebra	Semester	6th A
	BCD to 7 segment decoder	& Section:	
Github	Lavanya-B		
Repository:			





```
\alpha+(y+2) = (x+y)+3.

\alpha\cdot(y+2) = (x+y)+3.

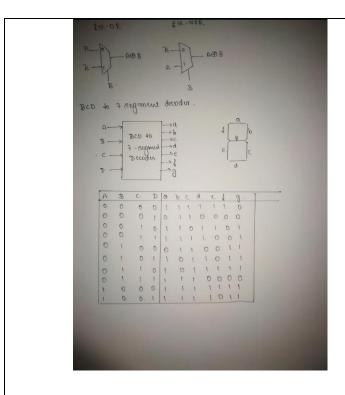
Distant busine Law.
       147 butive (2000).

2(42) = oxy + ox 2.

2+g2 = (ox+y) (ox+2).

= ox = +ox2 +oxy +y2.

= ox (++2+y) +y2.
                    = 2+43.
Theorems of Bookson algebra
 a) Abstraption Theorem.
 MUX to logic gates.
 2) MOX & DECOUNT are - universal legic
  2:1 MUX
                           subcotion(s) purput
4-10-4
                             0 A
                                 y = AS+BS
 an inputs.
 n Relection lines
                  AND OR
DINUNTER
```



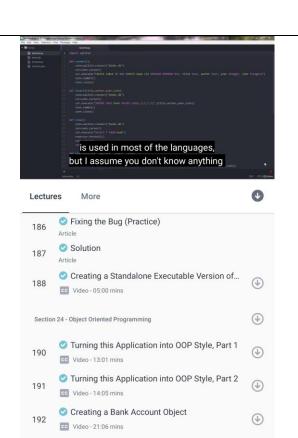
Date: 28/05/2020 Name: Lavanya B
Course: Python USN: 4al17ec043

Topic: Object Oriented Programming Semester 6th A

& Section:

## **AFTERNOON SESSION DETAILS**

Image of session



Inheritance

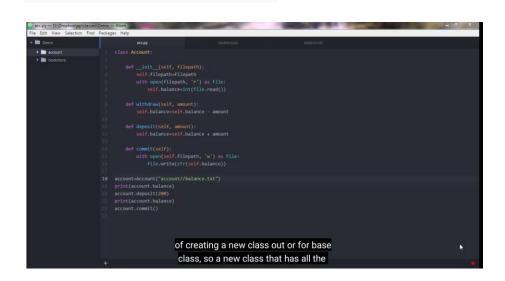
Video - 12:08 mins

✓ OOP Glossary

Video - 08:12 mins

193

194



4

**(** 

Report -

## **Object oriented programming**

- Introduction about OOP
- Turning this application intoOOP style
- Creating a bank account object
- Learnt about Inheritance of OOP
- OOP Glossary
- GUI in OOP design

Frontend.py and backend.py script in the OOP style

```
#frontend.py
from tkinter import *
from backend import Database
database=Database("books.db")
class Window(object):
  def __init__(self,window):
    self.window = window
    self.window.wm_title("BookStore")
    l1=Label(window,text="Title")
    l1.grid(row=0,column=0)
    12=Label(window,text="Author")
    12.grid(row=0,column=2)
    I3=Label(window,text="Year")
    13.grid(row=1,column=0)
    I4=Label(window,text="ISBN")
    14.grid(row=1,column=2)
    self.title_text=StringVar()
    self.e1=Entry(window,textvariable=self.title_text)
```

```
self.e1.grid(row=0,column=1)
   self.author text=StringVar()
   self.e2=Entry(window,textvariable=self.author text)
   self.e2.grid(row=0,column=3)
   self.year_text=StringVar()
   self.e3=Entry(window,textvariable=self.year text)
   self.e3.grid(row=1,column=1)
   self.isbn text=StringVar()
   self.e4=Entry(window,textvariable=self.isbn_text)
   self.e4.grid(row=1,column=3)
   self.list1=Listbox(window, height=6,width=35)
   self.list1.grid(row=2,column=0,rowspan=6,columnspan=2)
   sb1=Scrollbar(window)
   sb1.grid(row=2,column=2,rowspan=6)
   self.list1.configure(yscrollcommand=sb1.set)
   sb1.configure(command=self.list1.yview)
   self.list1.bind('<<ListboxSelect>>',self.get_selected_row)
   b1=Button(window,text="View all", width=12,command=self.view_command)
   b1.grid(row=2,column=3)
   b2=Button(window,text="Search entry", width=12,command=self.search command)
   b2.grid(row=3,column=3)
   b3=Button(window,text="Add entry", width=12,command=self.add_command)
   b3.grid(row=4,column=3)
   b4=Button(window,text="Update selected",
width=12,command=self.update_command)
   b4.grid(row=5,column=3)
   b5=Button(window,text="Delete selected",
width=12,command=self.delete command)
   b5.grid(row=6,column=3)
   b6=Button(window,text="Close", width=12,command=window.destroy)
```

```
b6.grid(row=7,column=3)
  def get selected row(self, event):
    index=self.list1.curselection()[0]
    self.selected tuple=self.list1.get(index)
    self.e1.delete(0,END)
    self.e1.insert(END,self.selected_tuple[1])
    self.e2.delete(0,END)
    self.e2.insert(END,self.selected tuple[2])
    self.e3.delete(0,END)
    self.e3.insert(END,self.selected_tuple[3])
    self.e4.delete(0,END)
    self.e4.insert(END,self.selected tuple[4])
  def view_command(self):
    self.list1.delete(0,END)
    for row in database.view():
      self.list1.insert(END,row)
  def search command(self):
    self.list1.delete(0,END)
    for row in
database.search(self.title_text.get(),self.author_text.get(),self.year_text.get(),self.isbn_te
xt.get()):
      self.list1.insert(END,row)
  def add_command(self):
database.insert(self.title_text.get(),self.author_text.get(),self.year_text.get(),self.isbn_tex
t.get())
    self.list1.delete(0,END)
self.list1.insert(END,(self.title_text.get(),self.author_text.get(),self.year_text.get(),self.isb
n_text.get()))
  def delete command(self):
    database.delete(self.selected tuple[0])
  def update command(self):
database.update(self.selected_tuple[0],self.title_text.get(),self.author_text.get(),self.year
_text.get(),self.isbn_text.get())
```

```
window=Tk()
Window(window)
window.mainloop()
#backend.py
import sqlite3
class Database:
 def __init__(self, db):
    self.conn=sqlite3.connect(db)
    self.cur=self.conn.cursor()
    self.cur.execute("CREATE TABLE IF NOT EXISTS book (id INTEGER PRIMARY KEY, title
text, author text, year integer, isbn integer)")
    self.conn.commit()
 def insert(self,title,author,year,isbn):
    self.cur.execute("INSERT INTO book VALUES (NULL,?,?,?,?)",(title,author,year,isbn))
    self.conn.commit()
 def view(self):
    self.cur.execute("SELECT * FROM book")
    rows=self.cur.fetchall()
    return rows
 def search(self,title="",author="",year="",isbn=""):
    self.cur.execute("SELECT * FROM book WHERE title=? OR author=? OR year=? OR
isbn=?", (title,author,year,isbn))
    rows=self.cur.fetchall()
    return rows
 def delete(self,id):
    self.cur.execute("DELETE FROM book WHERE id=?",(id,))
    self.conn.commit()
 def update(self,id,title,author,year,isbn):
    self.cur.execute("UPDATE book SET title=?, author=?, year=?, isbn=? WHERE
id=?",(title,author,year,isbn,id))
    self.conn.commit()
 def __del__(self):
    self.conn.close()
```