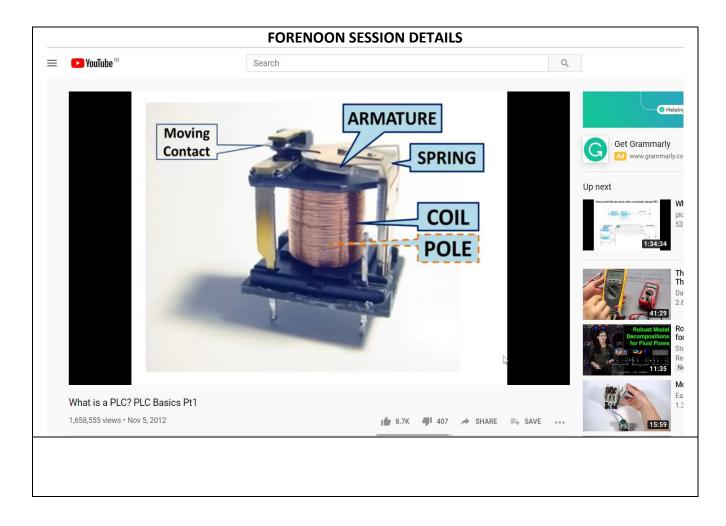
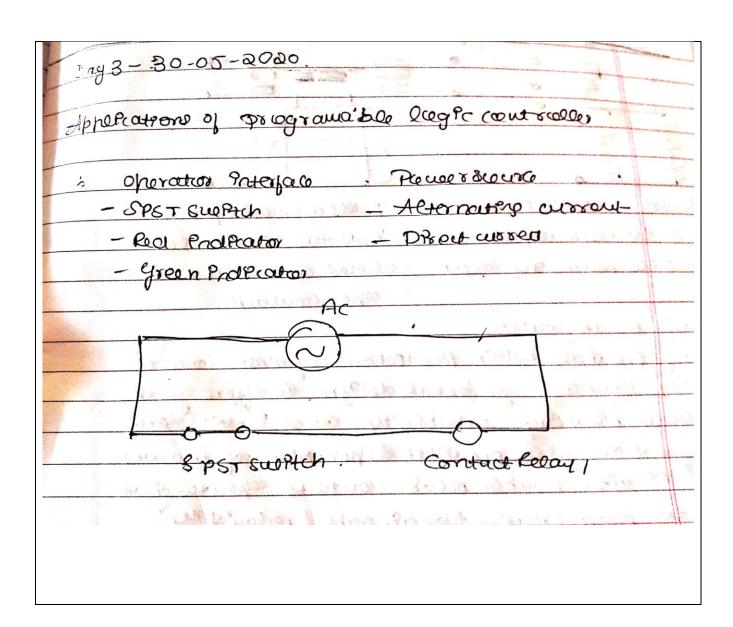
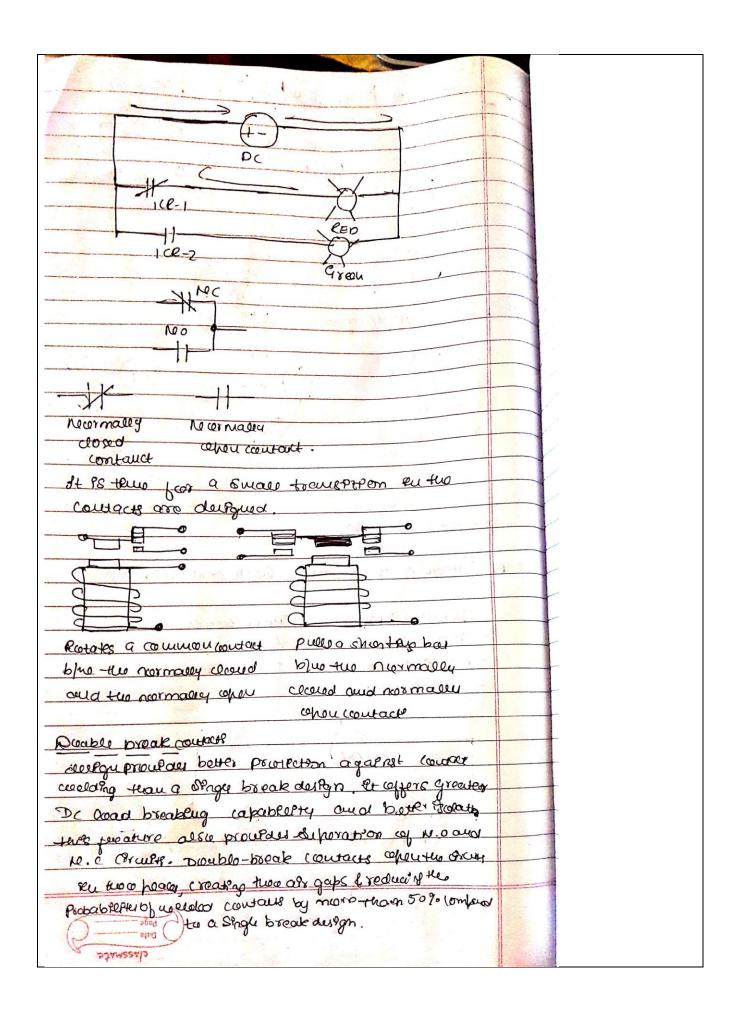
DAILY ASSESSMENT FORMAT

Date:	30-05-2020	Name:	BINDUSHRI
Course:	Logic designs	USN:	4AL17EC011
Topic:	1.applications of programmable		6 th A
	logic controller.		
Github	Bindushri		
Repository:			

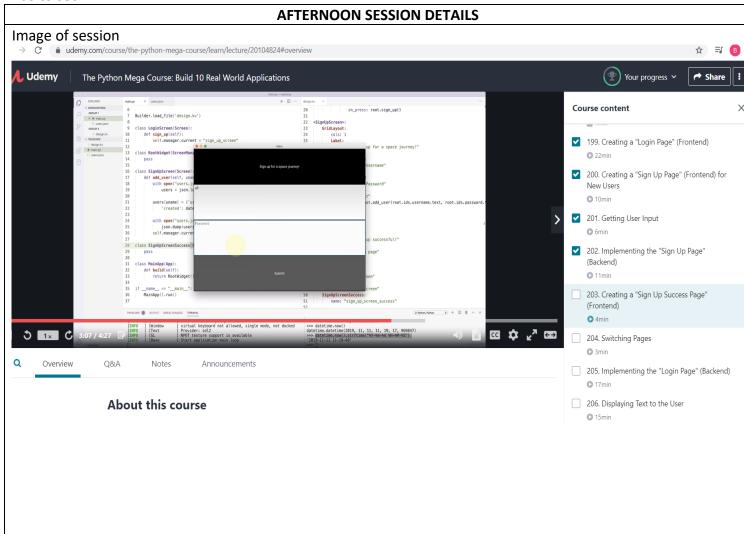


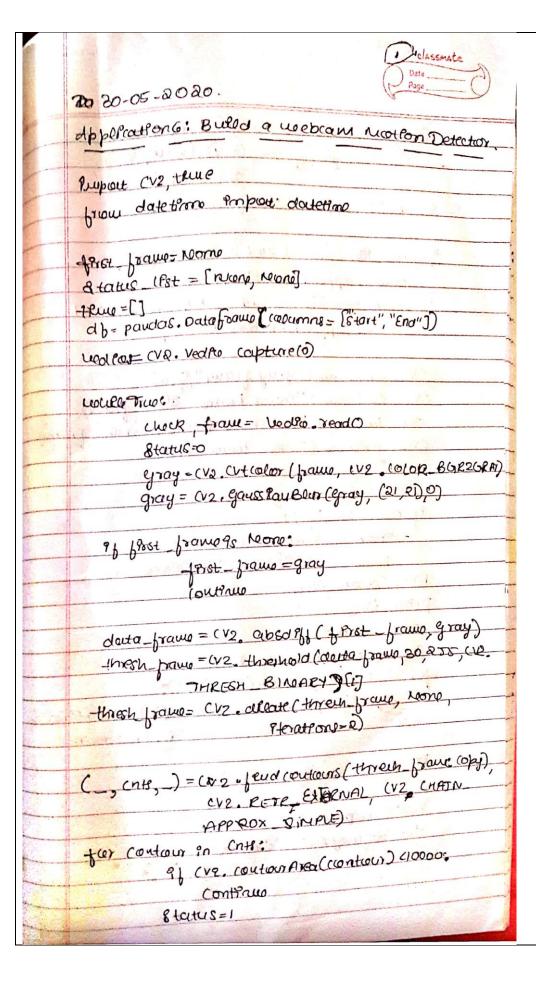




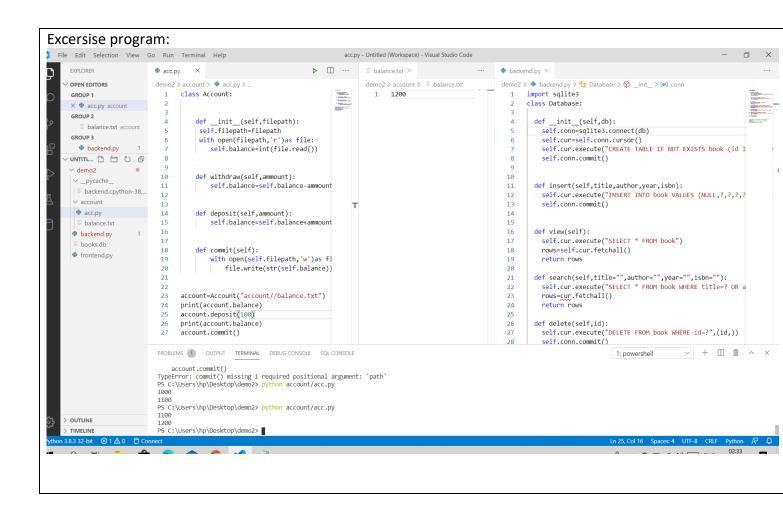
Date:30may2020 Name:Bindushri
Course: python USN:4AL17EC011
Topic: Sem&Sec:6th A

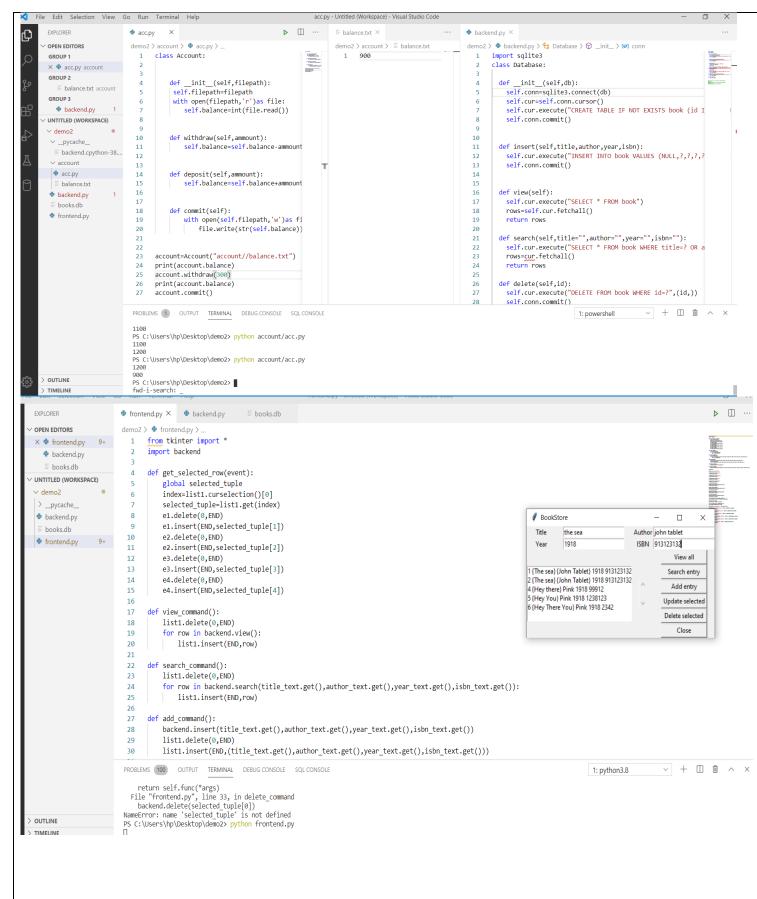
Basics:sec27





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	Cve. destroy Allustoromos





1.BANK ACCOUNT CODE:

```
class Account:
  def __init__(self,filepath):
  self.filepath=filepath
  with open(filepath,'r')as file:
    self.balance=int(file.read())
  def withdraw(self,ammount):
    self.balance=self.balance-ammount
  def deposit(self,ammount):
    self.balance=self.balance+ammount
  def commit(self):
    with open(self.filepath,'w')as file:
      file.write(str(self.balance))
account=Account("account//balance.txt")
print(account.balance)
account.withdraw(300)
print(account.balance)
account.commit()
1a)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=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()
1b)frontend.py:
from tkinter import *
from backend import Database
database=Database("books.db")
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 database.view():
    list1.insert(END,row)
def search_command():
 list1.delete(0,END)
 for row in database.search(title_text.get(),author_text.get(),year_text.get(),isbn_text.get()):
    list1.insert(END,row)
def add_command():
  database.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():
  database.delete(selected tuple[0])
def update command():
  database.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)
12=Label(window,text="Author")
12.grid(row=0,column=2)
13=Label(window,text="Year")
13.grid(row=1,column=0)
I4=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)
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()
```

```
2A)TKINTER CODE:(frontend.py):
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)
```

```
12=Label(window,text="Author")
12.grid(row=0,column=2)
13=Label(window,text="Year")
13.grid(row=1,column=0)
I4=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)
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()
2B)backend.py:
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"))
```