**18CSC207J-Advance Programming Practice - Structured Programming –
Lab Programs**

WEEK 5 (b) - Declarative Programming Paradigm

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SET-3

```python
import tkinter
from tkinter import *
root= Tk()
root.title('FORM')
root.geometry("1000x1000")

T1=StringVar()
T2=StringVar()
T3=StringVar()
T4=StringVar()
T5=StringVar()
T6=StringVar()
T7=StringVar()
T8=StringVar()
T9=StringVar()
T10=StringVar()
T11=StringVar()
T12=StringVar()
T13=StringVar()
T14=StringVar()
T15=StringVar()
T16=StringVar()
T17=StringVar()
T18=StringVar()
T19=StringVar()
T20=StringVar()
T21=StringVar()
T22=StringVar()
T23=StringVar()
T24=StringVar()
T25=StringVar()
T26=StringVar()
T27=StringVar()
R0=StringVar()
R1=StringVar()
```

```python
R2=StringVar()
R3=StringVar()


Frame1 = Frame(root, width=1000, height=33, bg='light grey',highlightbackgroun
d="black",highlightthickness=1)
Frame1.pack(side='top')
L1 = Label(Frame1, text="REGISTRATION INFORMATION",font=("Arial", 15),bg="ligh
t grey")
L1.place(x = 370, y = 0)
Frame2 = Frame(root, width=1000, height=180, bg='white',highlightbackground="b
lack",highlightthickness=1)
Frame2.pack(side='top')
L2 = Label(root, text="Registration Period:(check one) ",font=("Arial",10))
L2.place(x=10,y=40)
cb1=Radiobutton(root,text='One Year',variable=R0,value='One Year')
cb1.place(x=200,y=40)
cb2=Radiobutton(root,text='Two Years(52 discount applies)',variable=R0,value='
Two Years')
cb2.place(x=300,y=40)
cb3=Radiobutton(root,text='Three Years(53 discount applies)',variable=R0,value
='Three Years')
cb3.place(x=500,y=40)
L3 = Label(root, text="(not available for vehicles subject to emissions testin
g)")
L3.place(x=500,y=60)
L4 = Label(root, text="Registration Type:(check one) ",font=("Arial",10))
L4.place(x=10,y=80)
cb4=Radiobutton(root,text='Original',variable=R1,value='Original')
cb4.place(x=200,y=80)
cb5=Radiobutton(root,text='Renewal',variable=R1,value='Renewal')
cb5.place(x=330,y=80)
cb6=Radiobutton(root,text='Private',variable=R1,value='Private')
cb6.place(x=420,y=80)
cb7=Radiobutton(root,text='Reissue(Plates & Decats)',variable=R1,value='Reissu
e(Plates & Decats)')
cb7.place(x=560,y=80)
L5 = Label(root, text="See Ressue Plates below under Plate Information")
L5.place(x=560,y=100)
cb8=Radiobutton(root,text='Reissue (Decals Only)',variable=R1,value='Reissue (
Decals Only)')
cb8.place(x=10,y=120)
cb9=Radiobutton(root,text='Rental Vehicle',variable=R1,value='Rental Vehicle')
cb9.place(x=200,y=120)
cb10=Radiobutton(root,text='Transfer Licence Plate Number:',variable=R1,value=
'Transfer Licence Plate Number')
cb10.place(x=330,y=120)
E1 = Entry(root, bd =2,textvariable=T1)
E1.place(x=520,y=120)
```

```python
cb11=Radiobutton(root,text='For Hire (complete "For Hire Information" section)
',variable=R1,value='For Hire')
cb11.place(x=10,y=150)
cb12=Radiobutton(root,text='Ridesharing (Varpol) (Cannot exceed 16 passengers
including driver.)    Seating Capacity',variable=R1,value='Ridesharing')
cb12.place(x=330,y=150)
#cb13=Checkbutton(root,text='',onvalue=1, offvalue=0)
#cb13.place(x=720,y=150)
E2 = Entry(root, bd =2,textvariable=T2)
E2.place(x=830,y=152)
cb14=Radiobutton(root,text='Amateur Radio Operator Call Letters- Specify lette
rs',variable=R1,value='RAOC letters')
cb14.place(x=10,y=180)
E3 = Entry(root, bd =2,textvariable=T3)
E3.place(x=320,y=180)
cb15=Radiobutton(root,text='Other:',variable=R1,value='Other')
cb15.place(x=560,y=180)
E4 = Entry(root, bd =2,textvariable=T4)
E4.place(x=620,y=180)

Frame3 = Frame(root, width=1000, height=33, bg='light grey',highlightbackgroun
d="black",highlightthickness=1)
Frame3.pack(side='top')
L6 = Label(root, text="OWNER INFORMATION",font=("Arial", 15),bg="light grey")
L6.place(x = 390, y = 215)

c1 = tkinter.Canvas(root, bg="white", height=550, width=1000)
L7 = Label(root, text="OWNER'S FULL LEGAL NAME(last,first,int,suffix) OR BUSIN
ESS NAME (if business owned)")
L7.place(x=10,y=250)
E5 = Entry(root, bd =2,width="70",textvariable=T5)
E5.place(x=10,y=275)
L8 = Label(root, text="TELEPHONE NUMBER")
L8.place(x=505,y=250)
E6 = Entry(root, bd =2,width="20",textvariable=T6)
E6.place(x=505,y=275)
L9 = Label(root, text="DMV CUSTOMER NUMBER/FEIN/SSN")
L9.place(x=705,y=250)
E7 = Entry(root, bd =2,width="30",textvariable=T7)
E7.place(x=705,y=275)
c1.create_rectangle(2, 0, 500, 55,outline="black")
c1.create_rectangle(500, 0, 700, 55,outline="black")
c1.create_rectangle(700, 0, 997, 55,outline="black")

L10 = Label(root, text="CO-OWNER'S FULL LEGAL NAME(last,first,int,suffix)")
L10.place(x=10,y=305)
E8 = Entry(root, bd =2,width="70",textvariable=T8)
E8.place(x=10,y=330)
```

```python
L11 = Label(root, text="TELEPHONE NUMBER")
L11.place(x=505,y=305)
E9 = Entry(root, bd =2,width="20",textvariable=T9)
E9.place(x=505,y=330)
L12 = Label(root, text="DMV CUSTOMER NUMBER/FEIN/SSN")
L12.place(x=705,y=305)
E10 = Entry(root, bd =2,width="30",textvariable=T10)
E10.place(x=705,y=330)
c1.create_rectangle(2, 110, 500, 55,outline="black")
c1.create_rectangle(500, 110, 700, 55,outline="black")
c1.create_rectangle(700, 110, 997, 55,outline="black")

L13 = Label(root, text="NOTE: Owners(and lessees if applicable) MUST provide t
heir residence/home/business address where requested, this address\n can not b
e a P.O. Box. You must complate form ISD-
01 if you would like your address(es) updated")
L13.place(x=10,y=360)
L14 = Label(root, text="RESIDENCE/BUSINESS JURISDICTION")
L14.place(x=705,y=360)
E11 = Entry(root, bd =2,width="20",textvariable=T11)
E11.place(x=705,y=385)
c1.create_rectangle(2, 165, 700, 55,outline="black")
c1.create_rectangle(700, 165, 997, 55,outline="black")

L15 = Label(root, text="OWNER'S RESIDENCE/HOME/BUSINESS ADDRESS (Apt # if appl
icable)")
L15.place(x=10,y=415)
E12 = Entry(root, bd =2,width="50",textvariable=T12)
E12.place(x=10,y=440)
L16 = Label(root, text="QTY")
L16.place(x=415,y=415)
E13 = Entry(root, bd =2,width="50",textvariable=T13)
E13.place(x=415,y=440)
L17 = Label(root, text="STATE")
L17.place(x=805,y=415)
E14 = Entry(root, bd =2,width="10",textvariable=T14)
E14.place(x=805,y=440)
L18 = Label(root, text="ZIP CODE")
L18.place(x=890,y=415)
E15 = Entry(root, bd =2,width="15",textvariable=T15)
E15.place(x=890,y=440)
c1.create_rectangle(2, 220, 410, 165,outline="black")
c1.create_rectangle(410, 220, 800, 165,outline="black")
c1.create_rectangle(800, 220, 880, 165,outline="black")
c1.create_rectangle(880, 220, 997, 165,outline="black")
```

```python
L19 = Label(root, text="CO-
OWNER'S RESIDENCE/HOME/BUSINESS ADDRESS (Apt # if applicable)")
L19.place(x=10,y=470)
E16 = Entry(root, bd =2,width="50",textvariable=T16)
E16.place(x=10,y=495)
L20 = Label(root, text="QTY")
L20.place(x=415,y=470)
E17 = Entry(root, bd =2,width="50",textvariable=T17)
E17.place(x=415,y=495)
L21 = Label(root, text="STATE")
L21.place(x=805,y=470)
E18 = Entry(root, bd =2,width="10",textvariable=T18)
E18.place(x=805,y=495)
L22 = Label(root, text="ZIP CODE")
L22.place(x=890,y=470)
E19 = Entry(root, bd =2,width="15",textvariable=T19)
E19.place(x=890,y=495)
c1.create_rectangle(2, 275, 410, 220,outline="black")
c1.create_rectangle(410, 275, 800, 220,outline="black")
c1.create_rectangle(800, 275, 880, 220,outline="black")
c1.create_rectangle(880, 275, 997, 220,outline="black")

L23= Label(root, text="OWNER EMAIL ADDRESS")
L23.place(x=10,y=525)
E20= Entry(root, bd =2,width="50",textvariable=T20)
E20.place(x=10,y=550)
L24 = Label(root, text="CO-OWNER EMAIL ADDRESS")
L24.place(x=505,y=525)
E21 = Entry(root, bd =2,width="50",textvariable=T21)
E21.place(x=505,y=550)
c1.create_rectangle(2, 330, 500, 275,outline="black")
c1.create_rectangle(500, 330, 1000, 275,outline="black")

L25 = Label(root, text="ADDITIONAL INFORMATION",font=("Arial", 15),bg="light g
rey")
L25.place(x = 370, y = 580)
c1.create_rectangle(2, 365, 1000, 330,outline="black",fill="light grey")

L26 = Label(root, text="LOCATION WHERE VEHICLE IS PRINCIPALLY GARAGED")
L26.place(x=10,y=615)
cb16=Radiobutton(root,text='CITY',variable=R2,value='City')
cb16.place(x=10,y=640)
cb17=Radiobutton(root,text='COUNTRY',variable=R2,value='Country')
cb17.place(x=60,y=640)
cb18=Radiobutton(root,text='TOWN  ',variable=R2,value='Town')
cb18.place(x=140,y=640)
E22 = Entry(root, bd =2,width="20",textvariable=T22)
E22.place(x=220,y=640)
```

```python
L27 = Label(root, text="IF NEW LOCATION ENTER DATE CHANGED")
L27.place(x=405,y=615)
E23 = Entry(root, bd =2,width="40",textvariable=T23)
E23.place(x=405,y=640)
L28 = Label(root, text="Are any of the owners lessees on active\nmiltary duty
or service?")
L28.place(x=675,y=615)
cb19=Radiobutton(root,text='YES',variable=R3,value='Yes')
cb19.place(x=890,y=620)
cb20=Radiobutton(root,text='NO',variable=R3,value='No')
cb20.place(x=950,y=620)
c1.create_rectangle(2, 420, 400, 365,outline="black")
c1.create_rectangle(400, 420,670, 365,outline="black")
c1.create_rectangle(670, 420, 997, 365,outline="black")

L29 = Label(root, text="IF YOU WOULD LIKE YOUR RESISTRATION RENEWALS SENT TO A
N ADDRESS OTHER THAN YOUR RESIDENCE/BUSINESS ADDESSS ENTER IT BELOW")
L29.place(x=10,y=670)
c1.create_rectangle(2, 450, 997, 420,outline="black")

L30 = Label(root, text="REGISTRATION MAILING ADDRESS-OPTIONAL")
L30.place(x=10,y=700)
E24 = Entry(root, bd =2,width="50",textvariable=T24)
E24.place(x=10,y=725)
L31 = Label(root, text="QTY")
L31.place(x=415,y=700)
E25 = Entry(root, bd =2,width="50",textvariable=T25)
E25.place(x=415,y=725)
L32 = Label(root, text="STATE")
L32.place(x=805,y=700)
E26 = Entry(root, bd =2,width="10",textvariable=T26)
E26.place(x=805,y=725)
L33 = Label(root, text="ZIP CODE")
L33.place(x=890,y=700)
E27= Entry(root, bd =2,width="15",textvariable=T27)
E27.place(x=890,y=725)
c1.create_rectangle(2, 505, 410, 450,outline="black")
c1.create_rectangle(410, 505, 800, 450,outline="black")
c1.create_rectangle(800, 505, 880, 450,outline="black")
c1.create_rectangle(880, 505, 997, 450,outline="black")
c1.pack()
```

```python
import sqlite3
conn = sqlite3.connect('lab5b')
c = conn.cursor()
c.execute('create table if not exists ri (RegPeriod text , RegType text , TPNu
mber text , SeatingCapicity text , RAOClatters text , Other text)')
c.execute('create table if not exists oi ( oname varchar(20) , otnumber int(10
) , odmv int(10) , coname varchar(20) , cotnumber int(10), rbj text , oaddress
 text\
     , oqty text , ostate text , ozipcode int(10) , coaddress varchar(20) , co
qty text , costate text , cozipcode int(10) ,oemail varchar(20) , coemail varc
har(20) )')
c.execute('create table if not exists ai (loc text , locname text , newlocdate
 text , milatry text , rmaddress text , oqty text , ostate text , ozipcode int
(10) )')
conn.commit()
#conn.close()
def save():
    print("You have submitted a record")
    c.execute('insert into oi values(?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?)',(T5.get
(),T6.get(),T7.get(),T8.get(),T9.get(),T10.get(),T11.get(),T12.get(),T13.get()
,T14.get(),T15.get(),T16.get(),T17.get(),T18.get(),T19.get(),T20.get(),))
    c.execute('INSERT into ai values(?,?,?,?,?,?,?,?)',(R2.get(),T22.get(),T23
.get(),R3.get(),T24.get(),T25.get(),T26.get(),T27.get(),))
    c.execute('INSERT into ri values(?,?,?,?,?,?)',(R0.get(),R1.get(),T1.get()
,T2.get(),T3.get(),T4.get(),))
    conn.commit()

B1 = Button(root, text="Submit",font=("Arial", 13),height=1,width=10,command=s
ave)
B1.place(x=465,y=755)
root.mainloop()
```

OUTPUT:-

REGISTRATION INFORMATION

Registration Period:(check one) ⦿ One Year   ○ Two Years(52 discount applies)   ○ Three Years(53 discount applies)
(not available for vehicles subject to emissions testing)

Registration Type:(check one)   ○ Original   ○ Renewal   ○ Private   ○ Reissue(Plates & Decats)
See Ressue Plates below under Plate Information

○ Reissue (Decals Only)   ○ Rental Vehicle   ⦿ Transfer Licence Plate Number: 53322

○ For Hire (complete "For Hire Information" section)   ○ Ridesharing (Varpol) (Cannot exceed 16 passengers including driver.) Seating Capacity [   ]

○ Amateur Radio Operator Call Letters- Specify letters [   ]   ○ Other: [   ]

OWNER INFORMATION

OWNER'S FULL LEGAL NAME(last,first,int,suffix) OR BUSINESS NAME (if business owned)	TELEPHONE NUMBER	DMV CUSTOMER NUMBER/FEIN/SSN
Captain	44664564554	54455

CO-OWNER'S FULL LEGAL NAME(last,first,int,suffix)	TELEPHONE NUMBER	DMV CUSTOMER NUMBER/FEIN/SSN
Stark	565545	656556

NOTE: Owners(and lessees if applicable) MUST provide their residence/home/business address where requested, this address can not be a P.O. Box. You must complate form ISD-01 if you would like your address(es) updated

RESIDENCE/BUSINESS JURISDICTION
AAA

OWNER'S RESIDENCE/HOME/BUSINESS ADDRESS (Apt # if applicable)	QTY		STATE	ZIP CODE
India	5		Delhi	110010

CO-OWNER'S RESIDENCE/HOME/BUSINESS ADDRESS (Apt # if applicable)	QTY		STATE	ZIP CODE
India	6		Delhi	110010

OWNER EMAIL ADDRESS	CO-OWNER EMAIL ADDRESS
exadda@gmail.com	caefcasce@gmail.com

ADDITIONAL INFORMATION

LOCATION WHERE VEHICLE IS PRINCIPALLY GARAGED	IF NEW LOCATION ENTER DATE CHANGED	Are any of the owners lessees on active miltary duty or service?
○ CITY ⦿ COUNTRY ○ TOWN Jaipur	22-7-2020	○ YES ⦿ NO

IF YOU WOULD LIKE YOUR RESISTRATION RENEWALS SENT TO AN ADDRESS OTHER THAN YOUR RESIDENCE/BUSINESS ADDESSS ENTER IT BELOW

REGISTRATION MAILING ADDRESS-OPTIONAL	QTY		STATE	ZIP CODE
India	5		sdc	1100022

Submit

Data Saved in Dtabase:-