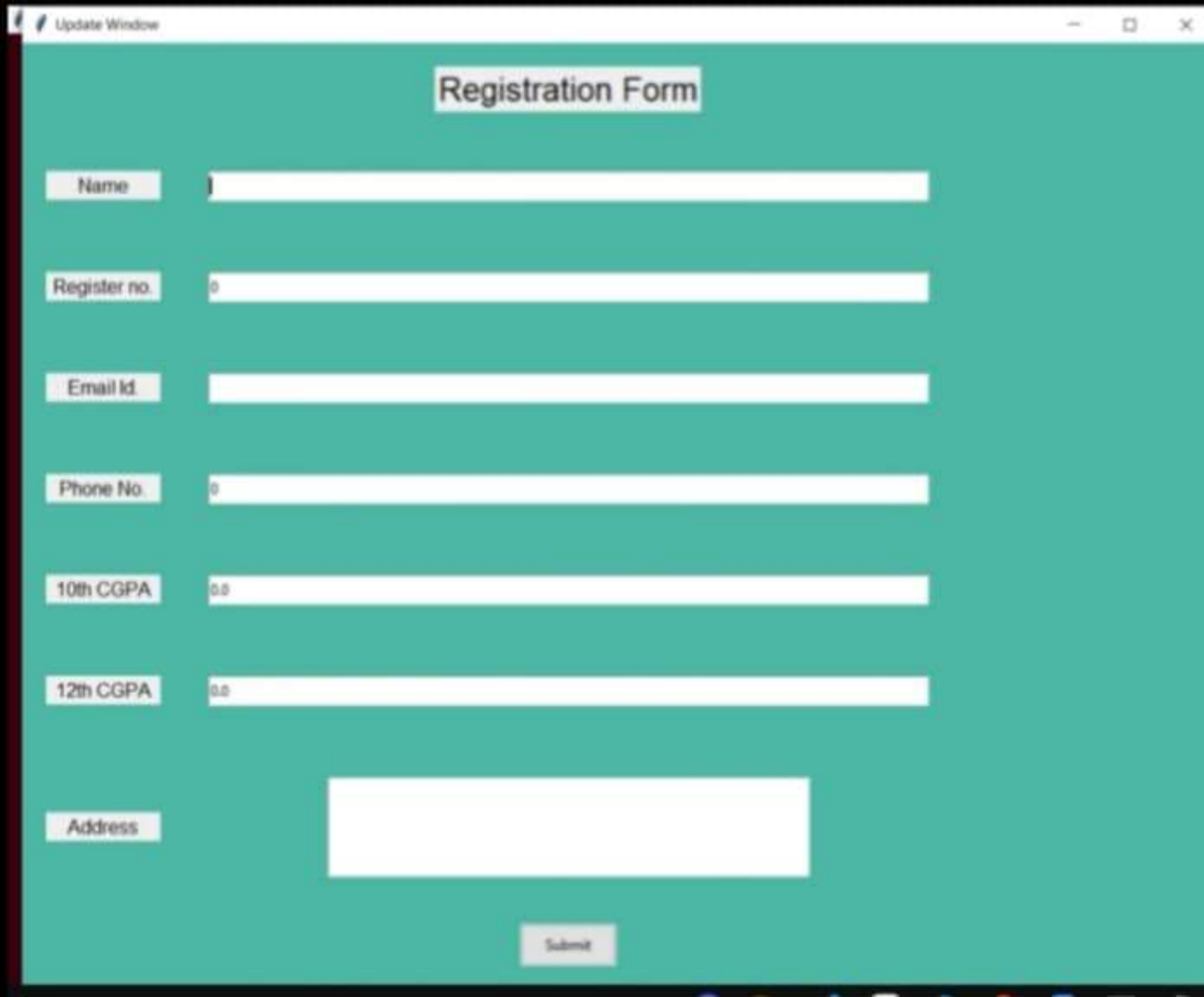
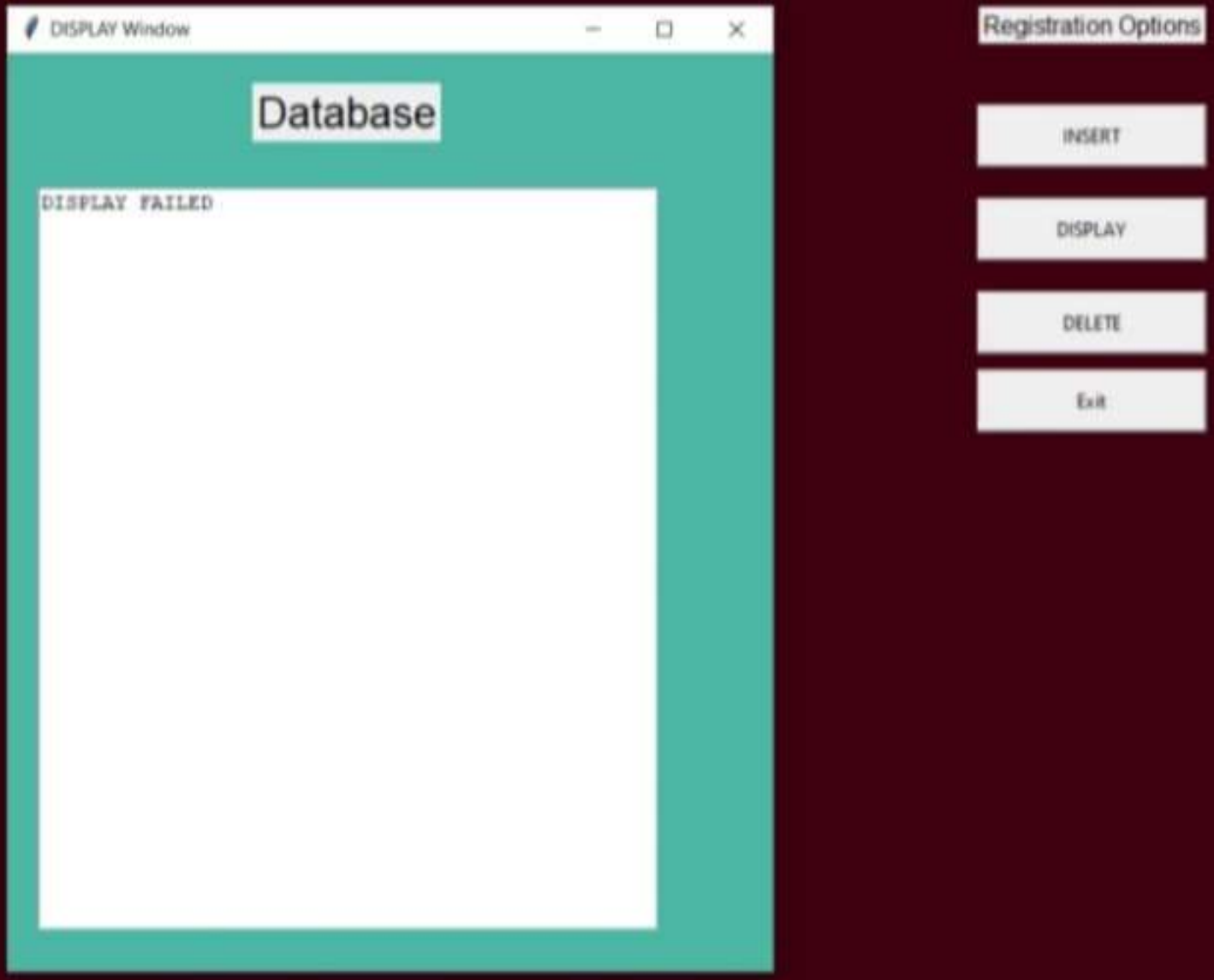
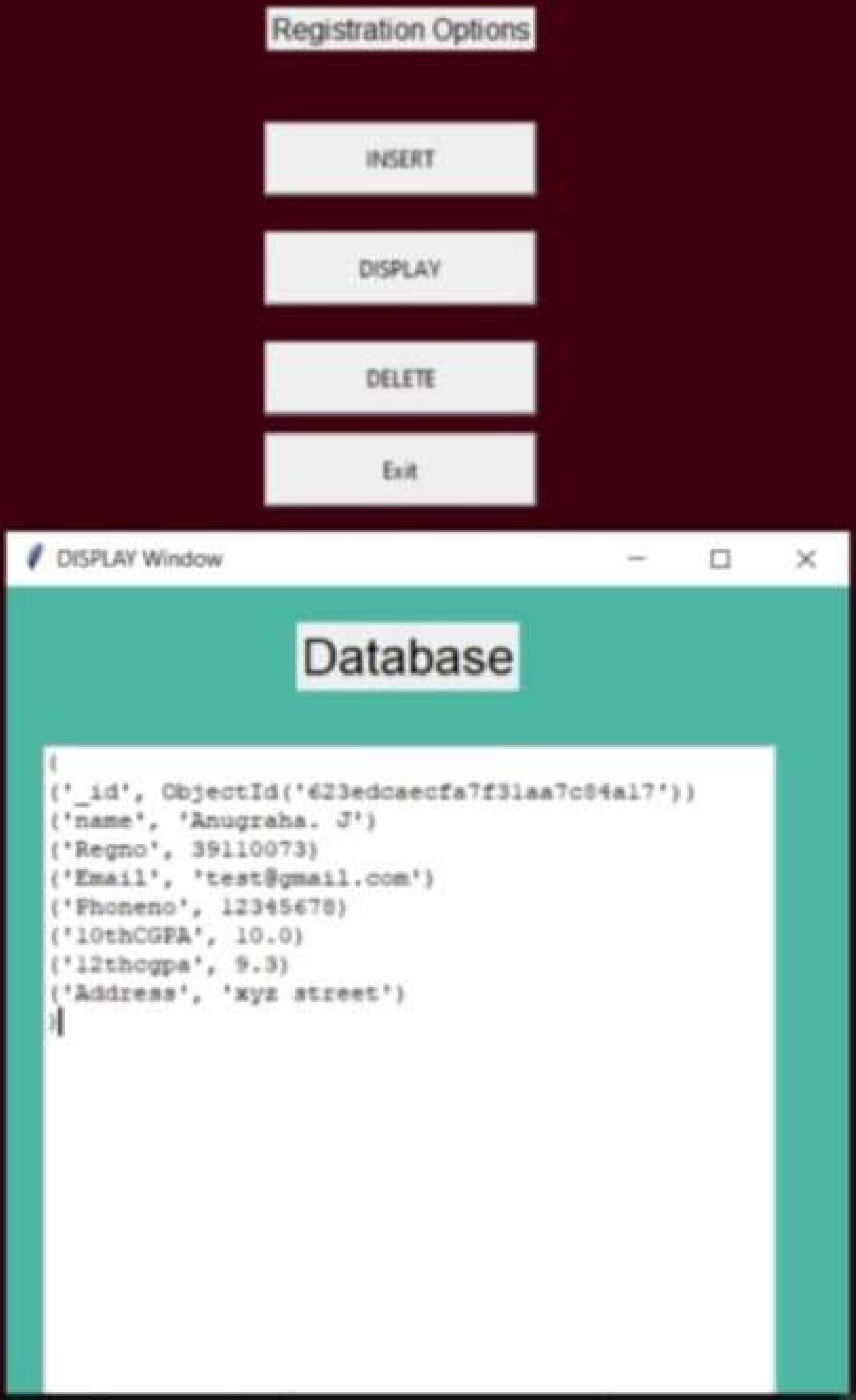
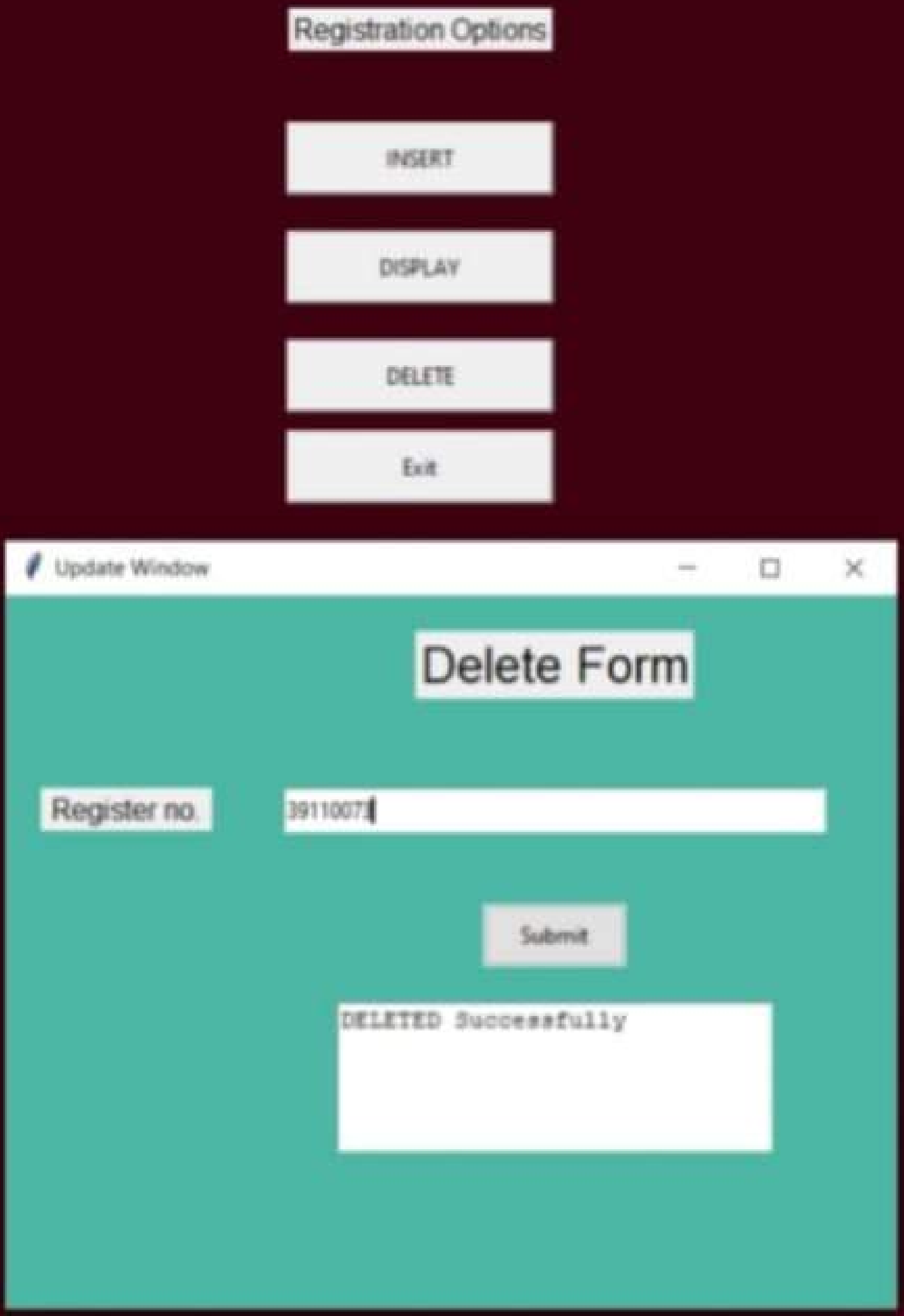

Registration Options
INSERT
DISPLAY
DELETE
Exit


Update Window
Registration Form
Name
Register no.
0
Email Id.
Phone No.
0
10th CGPA
0.0
12th CGPA
0.0
Address
Submit


DISPLAY Window
Database
DISPLAY FAILED
Registration Options
INSERT
DISPLAY
DELETE
Exit


Registration Options
INSERT
DISPLAY
DELETE
Exit
DISPLAY Window
Database
(
('_id', ObjectId('623edcaecfa7f31aa7c04a17'))
('name', 'Anugraha. J')
('Regno', 39110073)
('Email', 'test@gmail.com')
('Phoneno', 12345678)
('10thCGPA', 10.0)
('12thcgpa', 9.3)
('Address', 'xyz street')
)


Registration Options
INSERT
DISPLAY
DELETE
Exit
Update Window
Delete Form
Register no
3911007
Submit
DELETED Successfully

Expt. No. 02 Page No. 40

Expt. Name. Implementation of Tkinter Module with MS Access Date : 15-03-2024

Aim:

To implement the Tkinter module with MS Access.

Algorithm:

step 1: start
step 2: import the necessary packages
step 3: Insert the Details boxes like Name, Mail id, reg no, etc.
step 4: Create the table & databases which contain details
step 5: Display the created database details
step 6: Delete the unneccessary details in database.
step 7: Finally, exit the screen of the database
step 8: Stop

Algorithm:

```
import pyodbc as md
from tkinter import *
from tkinter import ttk
ws = Tk()
ws.title("student Registration Form")
ws.geometry("400x400")
ws['bg'] = "#0ff"
DBpath = r'DBQ=D:\COLLEGE\SEM 6\ML and PA (LAB)\ml\MS Access\Database1.accdb'
def insert():
    ins = Toplevel()
    name = StringVar()
    regno = IntVar()
    mail = StringVar()
    phone = StringVar()
```

```
tencgpa = DoubleVar()
twncgpa = DoubleVar()
addr = stringVar()

ins.title("Update Window")
ins.geometry('1000x900')
ins['bg']="#0A9"

def run():
    addr = hl.get('1.0','end-1c')
    conn_str = (
        r'DRIVER={Microsoft Access Driver (*.mdb,*.accdb)};'
        r'DBQ=D:\COLLEGE\SEM 6\ML and DA (LAB)\hl\MsAccess\Database1.accdb'
    )
    mydb = md.connect(conn_str)
    db = mydb.cursor()
    try:
        db.execute("""CREATE TABLE details(
                    Name VARCHAR(255),
                    Reg no int,
                    Email_ID VARCHAR(225),
                    Phone No VARCHAR(10),
                    10th_CGPA FLOAT(5),
                    12th_CGPA FLOAT,
                    Address TEXT);""")
    except:
        pass
    sql = "INSERT INTO details VALUES (?,?,?,?,?,?,?)"
```

```
val=(name.get(), regno.get(), mail.get(), phone.get(), tencgpa.get(),
twncgpa.get(), addr)
db.execute(sql, val)
xyz=db.execute("select * from details").fetchall()
print(xyz)
mydb.commit()
mydb.close()
print(name.get(), regno.get(), mail.get(), phone.get(), tencgpa.get(), twncgpa.get(), addr)
Label(ins, text="Registration Form", font=('Arial',20)).grid(row=0, column=1, pady=20, padx=100)
a=Label(ins, text="Name", font=('Arial',12), width=10).grid(row=1, column=0, padx=20, pady=30)
a1=Entry(ins, width=100, textvariable=name).grid(row=1, column=1, padx=20, pady=30, ipady=3)
b=Label(ins, text="Regno", font=('Arial',12), width=10).grid(row=2, column=0, padx=20, pady=30)
b1=Entry(ins, width=100, textvariable=regno).grid(row=2, column=1, padx=20, pady=30, ipady=3)
c=Label(ins, text="Email Id.", font=('Arial',12), width=10).grid(row=2, column=0, padx=20, pady=30)
c1=Entry(ins, width=100, textvariable=mail).grid(row=3, column=1, padx=20, pady=30, ipady=3)
d=Label(ins, text="Phone no", font('Arial',12), width=10).grid(row=4, column=0, padx=20, pady=30)
d1=Entry(ins, width=100, textvariable=phone).grid(row=4, column=1, padx=20, pady=30, ipady=3)
e=Label(ins, text="10th CGPA", font=('Arial',12), width).grid(row=5, column=0, padx=20, pady=30)
e1=Entry(ins, width=100, textvariable=tencgpa).grid(row=5, column=1, padx=20, pady=30, ipady=3)
f=Label(ins, text="12th CGPA", font=('Arial',12), width=10).grid(row=6, column=0, padx=20, pady=30)
f1=Entry(ins, width=100, textvariable=twncgpa).grid(row=6, column=1, padx=20, pady=30, ipady=3)
h1=Text(ins, width=50, height=5)
h1.grid(row=7, column=1, padx=0, pady=30)
btk=Button(ins, text="Submit", command=run).grid(row=8, column=1, pady=10, ipady=5, ipadx=20)
ins.mainloop()

def display():
    det=Toplevel()
    det.title("DISPLAY Window")
```

```
det.geometry('500x600')
det['bg']='#0A9'
label(det,text="Database',font=('Arial',20)).grid(row=0,column=1,pady=20)
tb=Text(det,width=50,height=30,background="#fff")
tb.grid(row=1,column=1,pady=10,padx=20)
try:
    conn_str=(
        r'DRIVER={Microsoft Access Driver (*.mdb,*.accdb)};'
        r'DBQ=D:\COLLEGE\SEM6\ML and DA(LAB)\h\Msaccess\Database1.accdb;'
    )
    mydb=.md.connect(conn_str)
    db=md.mydb.cursor()
    for i in xyz:
        tb.insert(INSERT,str(i)+'\n')
    mydb.commit()
    mydb.close()
except:
    tb.insert(INSERT,"DISPLAY FAILED\n")
    try:
        mydb.close()
    except:
        pass
det.mainloop()

def delete():
    det=Toplevel()
    regno=IntVar()
    def run()
        try:
```

```
.conn_str = (
    r'DRIVER={Microsoft Access Driver (*.mdb, *.accdb)};'
    r'DBQ=D:\COLLEGE\SEM 6\ML and DL\Database.accdb;'
)
db.execute("DELETE FROM Details wher Regno = ?", (regno.get(),))
tb.insert(INSERT, "Deleted succesfully").
except:
    tb.insert (INSERT, "DELETION FAILED")
dlt.title("Update Window)
dlt['bg'] = "#0A9"
a=Label (dlt, text="Reg No", font=('Arial', 12), width=10).grid(row=1, column=0, padx=20)
a1=Entry(dlt, width=30, textvariable=regno2).grid(row=1, column=1, padx=20, pady=20)
tb=Text(dlt, width=30, height=5, background="#fff")
tb.grid(row=9, column=1, pady=10)
dlt.mainloop()

labelfit=Label(text="Reg options", font=20)
labelfit.pack(side=TOP, pady=30)
```

Result:

The above program is executed and the output is verified.