PYTHON PROJECT

BLOCK 2

GLODI KALOMBO

D1LXT16D9

ITAPAI

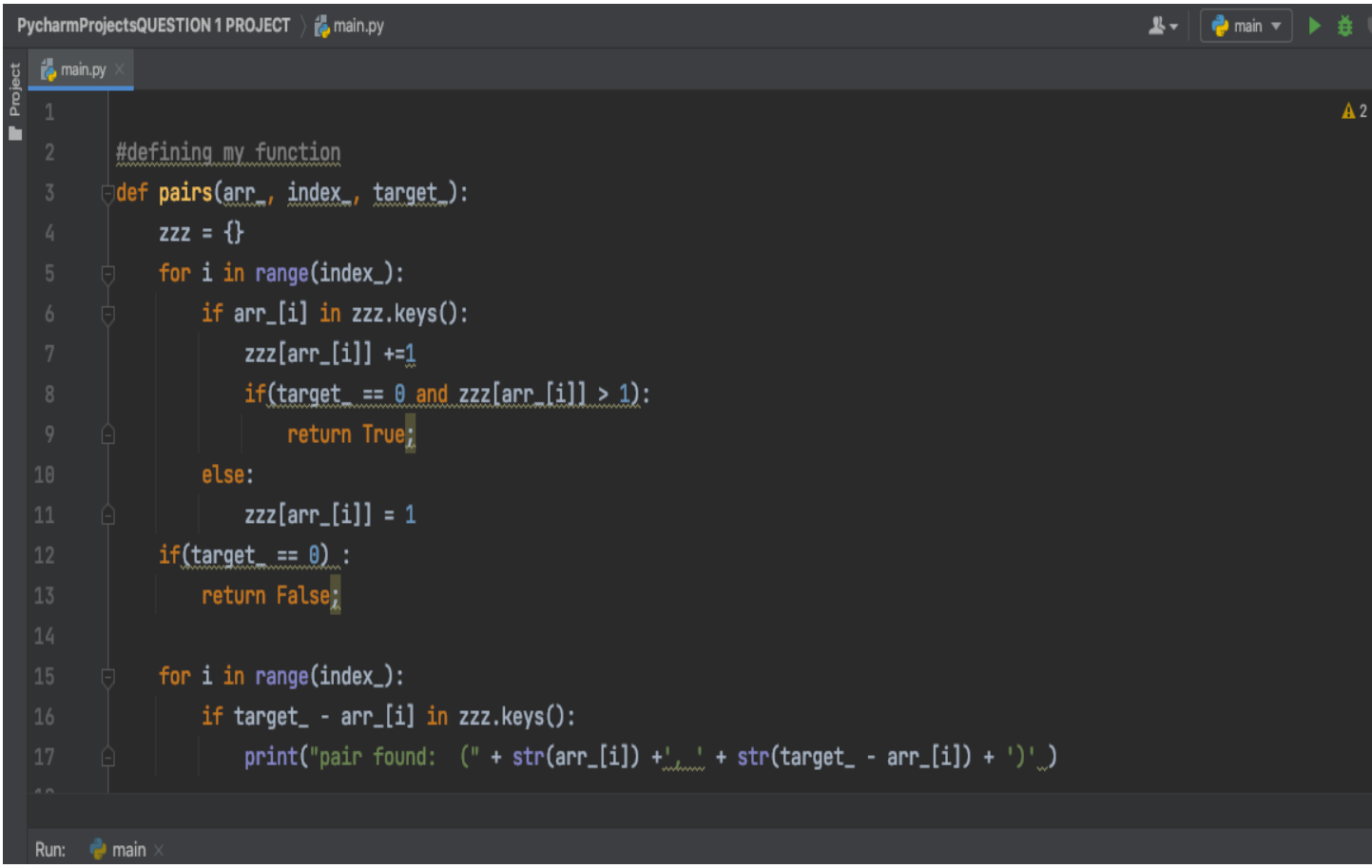
TYGER VALLEY CAMPUS

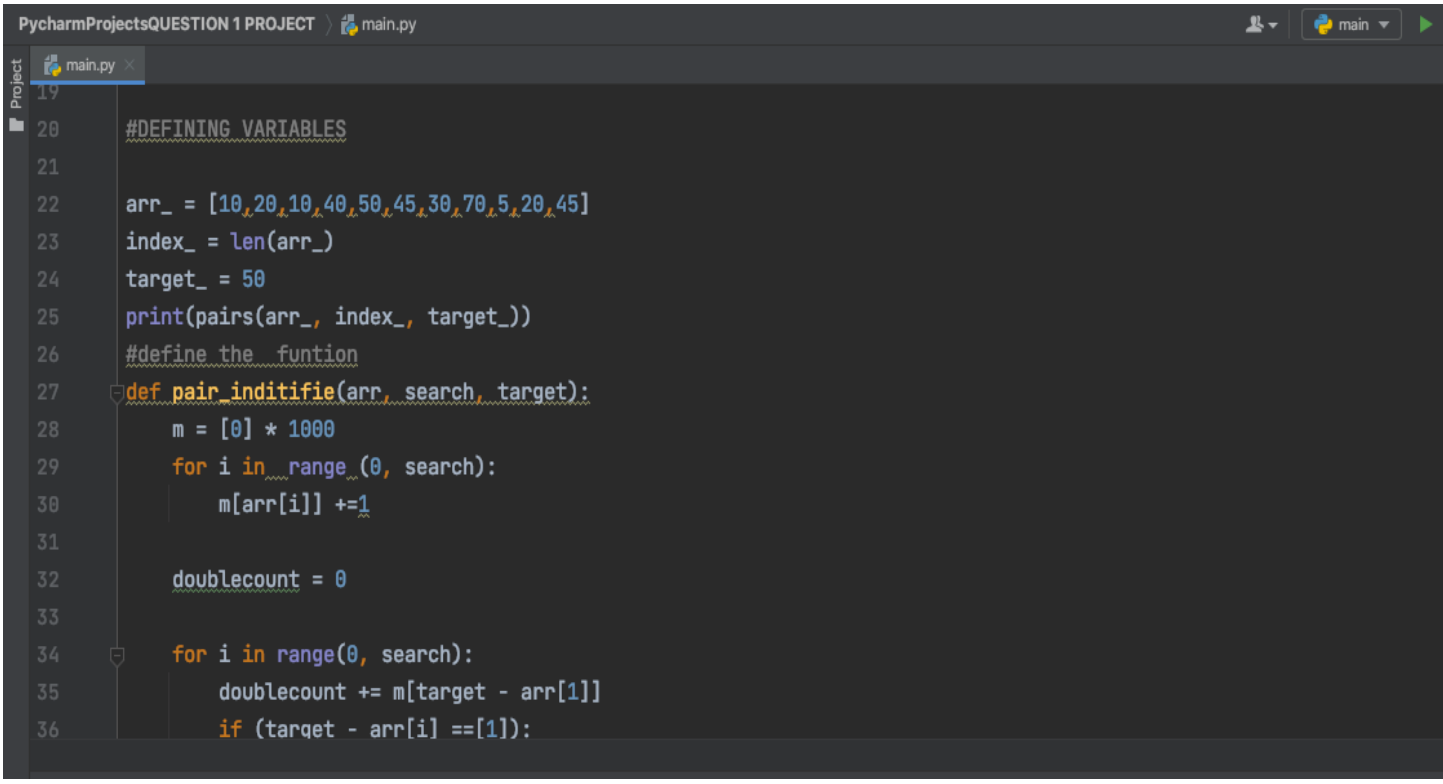
EDUVOS

QUESTION 1.

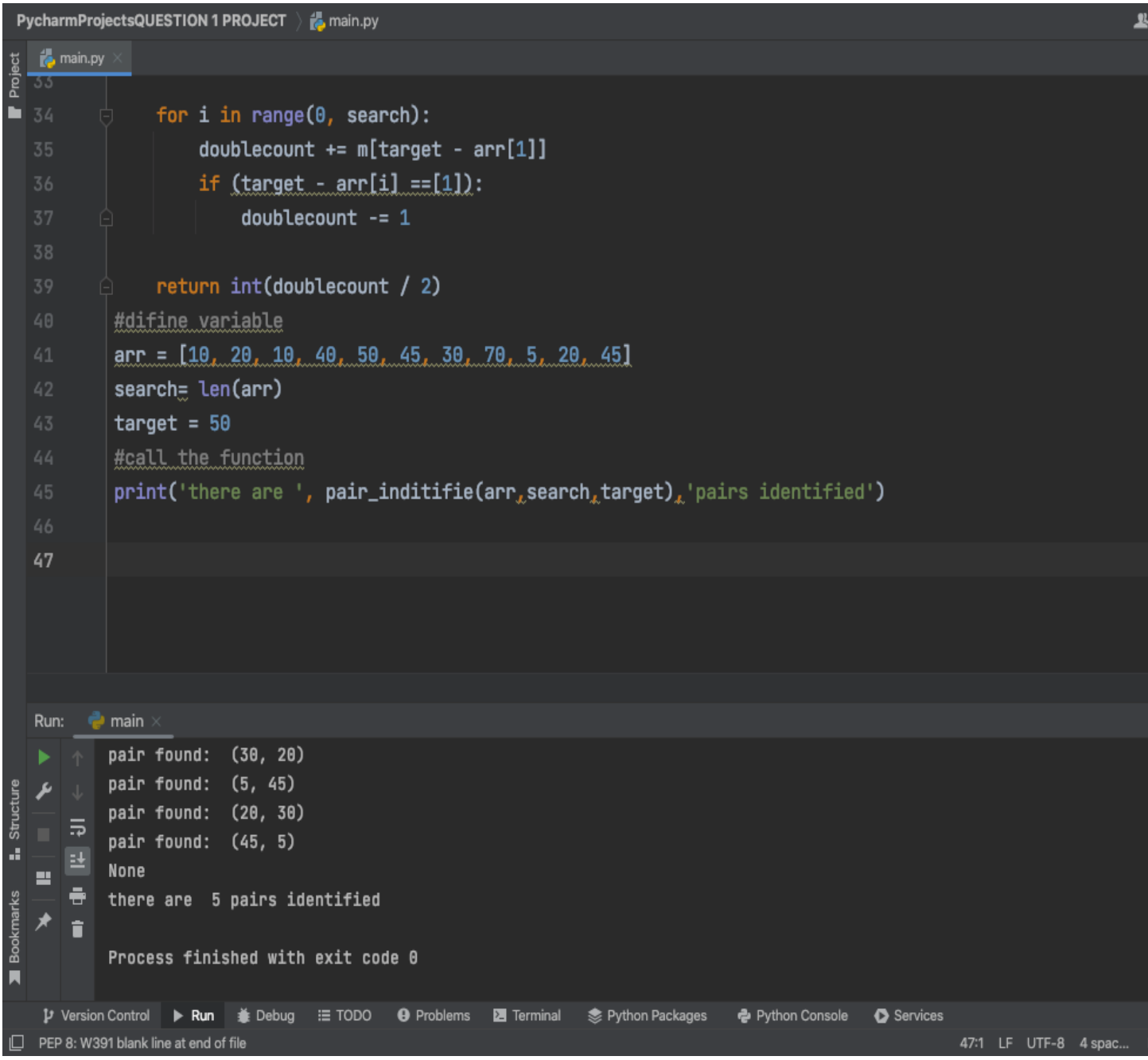
“THIS PROJECT WILL CONSIST OF SCREENCSHOT ONLY”

Code



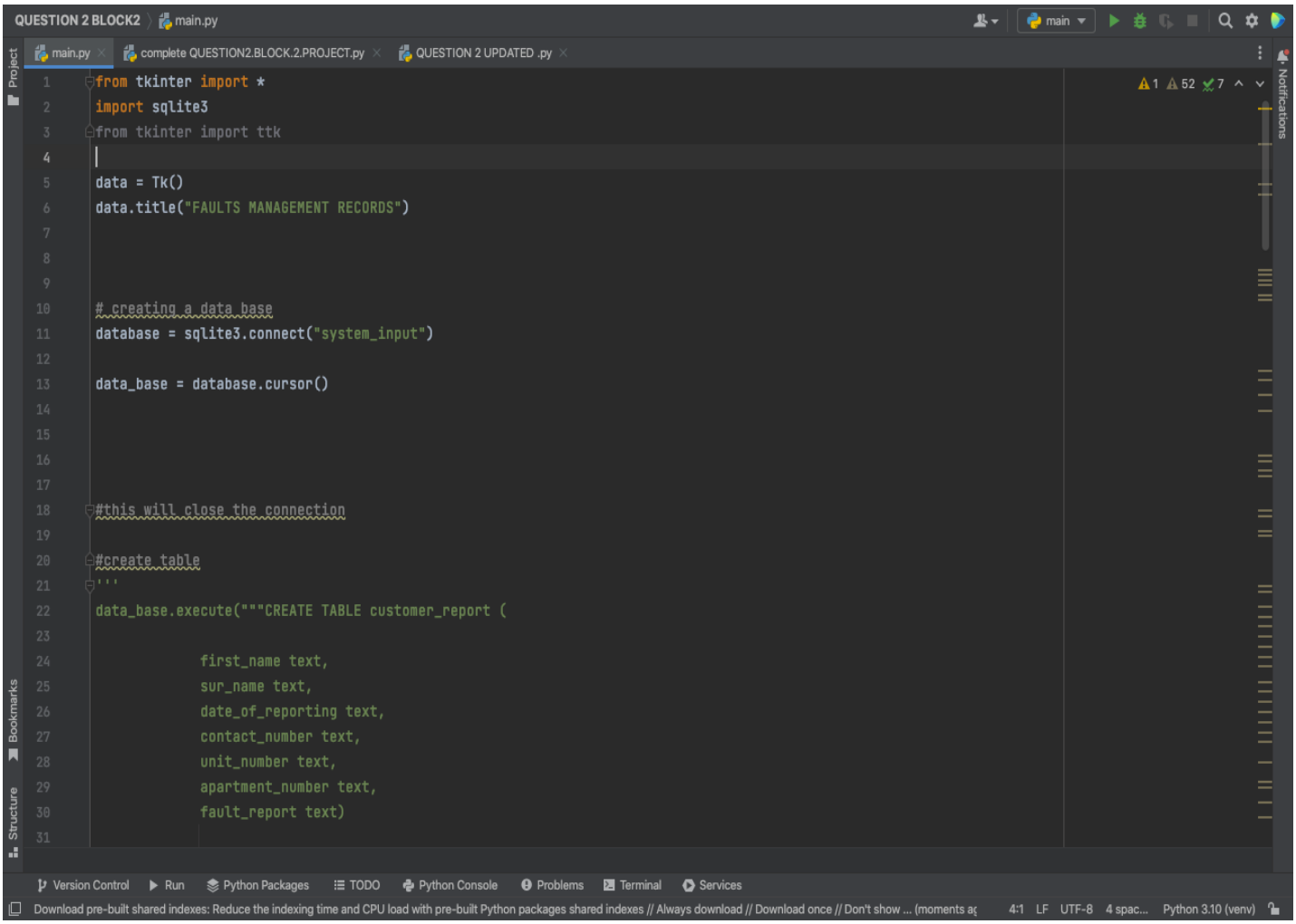

PycharmProjectsQUESTION 1 PROJECT
main.py
main
main.py
Project
#DEFINING VARIABLES
arr_ = [10,20,10,40,50,45,30,70,5,20,45]
index_ = len(arr_)
target_ = 50
print(pairs(arr_, index_, target_))
#define the funtion
def pair_inditifie(arr, search, target):
m = [0] * 1000
for i in range (0, search):
m[arr[i]] +=1
doublecount = 0
for i in range(0, search):
doublecount += m[target - arr[1]]
if (target - arr[i] ==[1]):

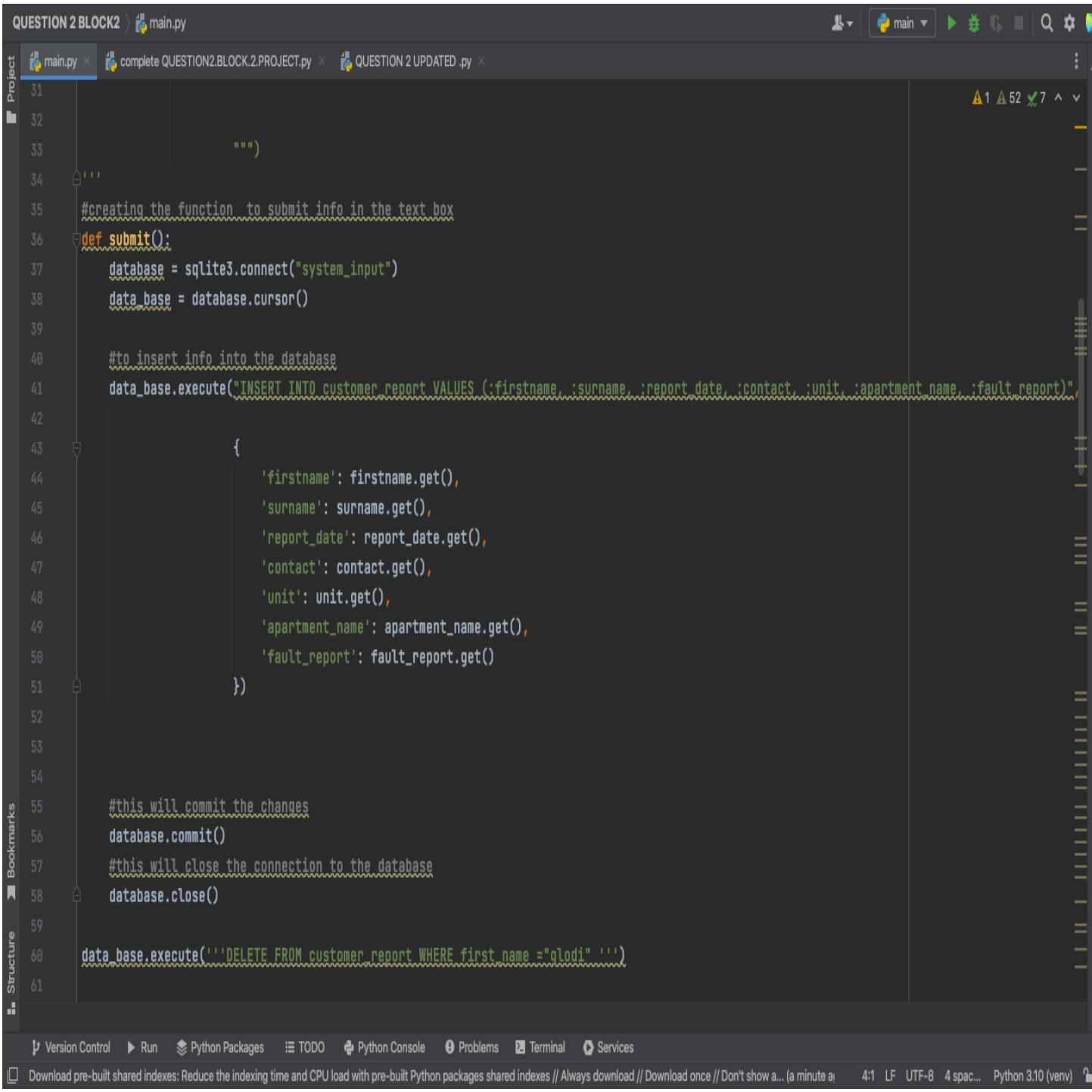
OUTPUT : at the bottom of the pic

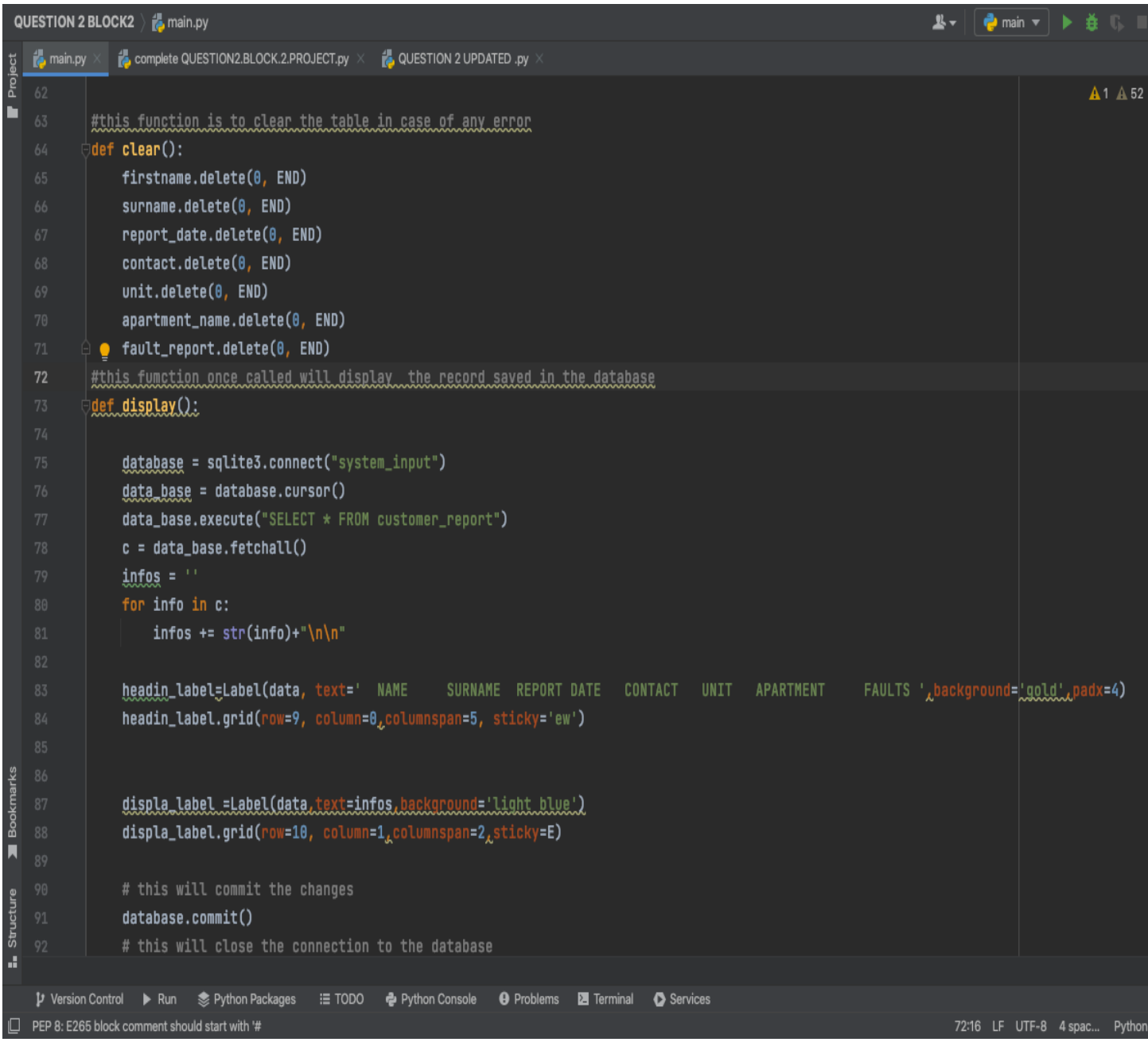


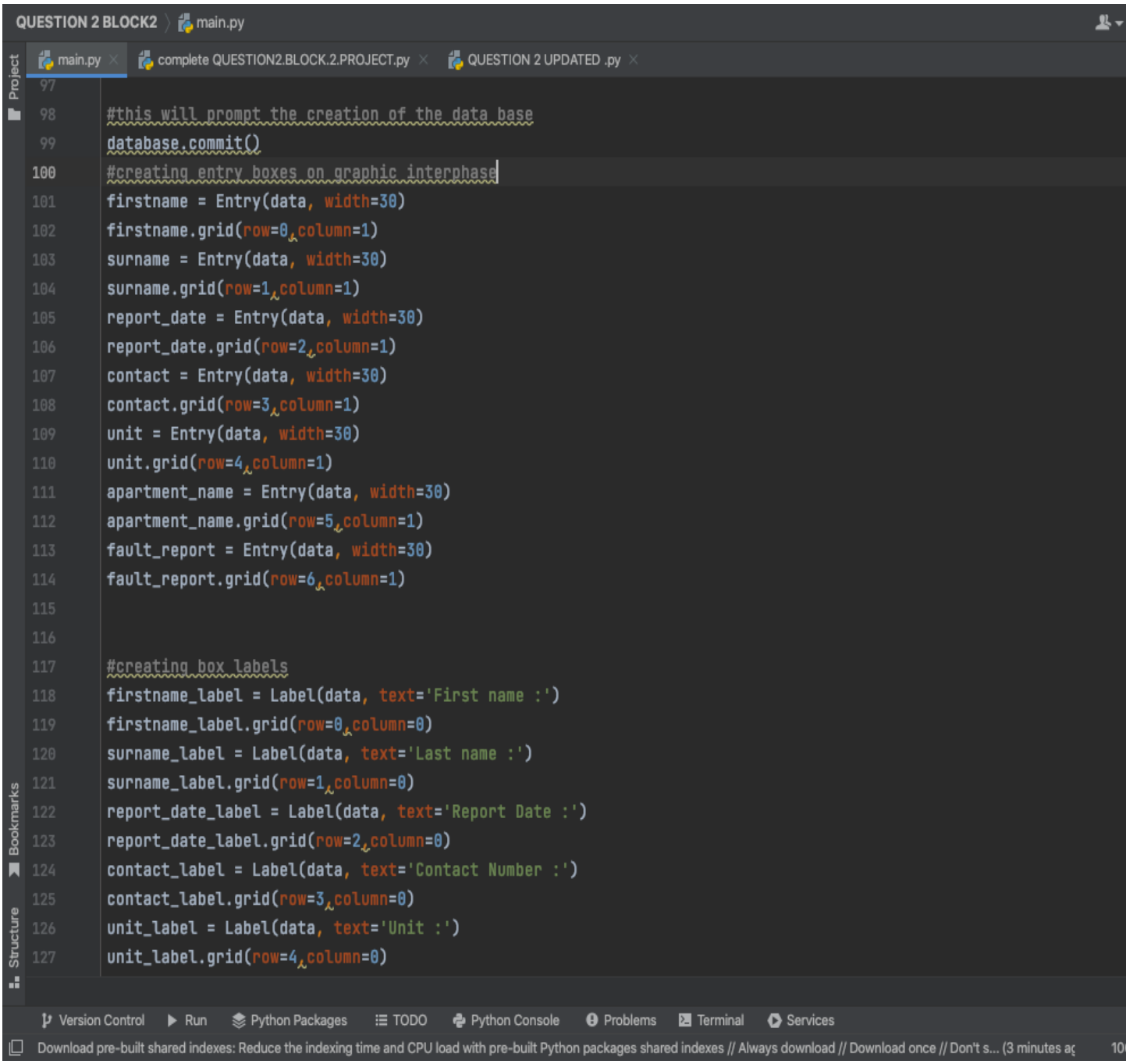
QUESTION 2

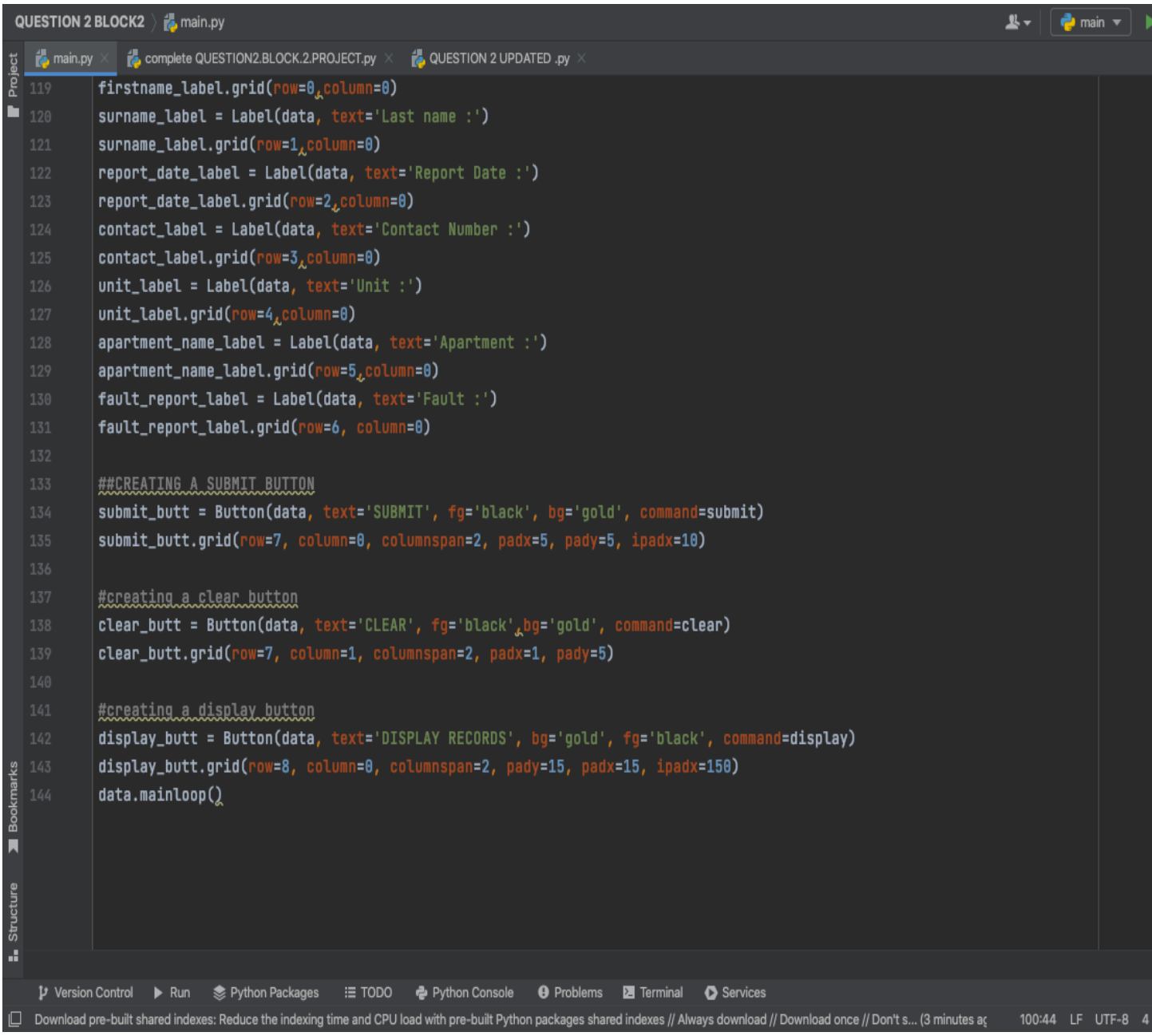
CODE:




QUESTION 2 BLOCK2
main.py
main
main.py
complete QUESTION2.BLOCK.2.PROJECT.py
QUESTION 2 UPDATED .py
"""
'''
#creating the function to submit info in the text box
def submit():
database = sqlite3.connect("system_input")
data_base = database.cursor()
#to insert info into the database
data_base.execute("INSERT INTO customer_report VALUES (:firstname, :surname, :report_date, :contact, :unit, :apartment_name, :fault_report)",
{
'firstname': firstname.get(),
'surname': surname.get(),
'report_date': report_date.get(),
'contact': contact.get(),
'unit': unit.get(),
'apartment_name': apartment_name.get(),
'fault_report': fault_report.get()
})
#this will commit the changes
database.commit()
#this will close the connection to the database
database.close()
data_base.execute('''DELETE FROM customer_report WHERE first_name ="glodi" ''')
Version Control
Run
Python Packages
TODO
Python Console
Problems
Terminal
Services
Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download once // Don't show a... (a minute a
4:1
LF
UTF-8
4 spac...
Python 3.10 (venv)


QUESTION 2 BLOCK2
main.py
main
main.py
complete QUESTION2.BLOCK.2.PROJECT.py
QUESTION 2 UPDATED .py
1 52
#this function is to clear the table in case of any error
def clear():
firstname.delete(0, END)
surname.delete(0, END)
report_date.delete(0, END)
contact.delete(0, END)
unit.delete(0, END)
apartment_name.delete(0, END)
fault_report.delete(0, END)
#this fumction once called will display the record saved in the database
def display():
database = sqlite3.connect("system_input")
data_base = database.cursor()
data_base.execute("SELECT * FROM customer_report")
c = data_base.fetchall()
infos = ''
for info in c:
infos += str(info)+"\n\n"
headin_label=Label(data, text=' NAME SURNAME REPORT DATE CONTACT UNIT APARTMENT FAULTS ',background='gold',padx=4)
headin_label.grid(row=9, column=0,columnspan=5, sticky='ew')
displa_label =Label(data,text=infos,background='light blue')
displa_label.grid(row=10, column=1,columnspan=2,sticky=E)
# this will commit the changes
database.commit()
# this will close the connection to the database
Project
Bookmarks
Structure
Version Control
Run
Python Packages
TODO
Python Console
Problems
Terminal
Services
PEP 8: E265 block comment should start with '#
72:16 LF UTF-8 4 spac... Python


QUESTION 2 BLOCK2
main.py
main.py
complete QUESTION2.BLOCK.2.PROJECT.py
QUESTION 2 UPDATED .py
#this will prompt the creation of the data base
database.commit()
#creating entry boxes on graphic interphase
firstname = Entry(data, width=30)
firstname.grid(row=0,column=1)
surname = Entry(data, width=30)
surname.grid(row=1,column=1)
report_date = Entry(data, width=30)
report_date.grid(row=2,column=1)
contact = Entry(data, width=30)
contact.grid(row=3,column=1)
unit = Entry(data, width=30)
unit.grid(row=4,column=1)
apartment_name = Entry(data, width=30)
apartment_name.grid(row=5,column=1)
fault_report = Entry(data, width=30)
fault_report.grid(row=6,column=1)
#creating box labels
firstname_label = Label(data, text='First name :')
firstname_label.grid(row=0,column=0)
surname_label = Label(data, text='Last name :')
surname_label.grid(row=1,column=0)
report_date_label = Label(data, text='Report Date :')
report_date_label.grid(row=2,column=0)
contact_label = Label(data, text='Contact Number :')
contact_label.grid(row=3,column=0)
unit_label = Label(data, text='Unit :')
unit_label.grid(row=4,column=0)
Project
Bookmarks
Structure
Version Control
Run
Python Packages
TODO
Python Console
Problems
Terminal
Services
Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download once // Don't s... (3 minutes ag


QUESTION 2 BLOCK2
main.py
main
main.py
complete QUESTION2.BLOCK.2.PROJECT.py
QUESTION 2 UPDATED .py
Project
Bookmarks
Structure
119 firstname_label.grid(row=0,column=0)
120 surname_label = Label(data, text='Last name :')
121 surname_label.grid(row=1,column=0)
122 report_date_label = Label(data, text='Report Date :')
123 report_date_label.grid(row=2,column=0)
124 contact_label = Label(data, text='Contact Number :')
125 contact_label.grid(row=3,column=0)
126 unit_label = Label(data, text='Unit :')
127 unit_label.grid(row=4,column=0)
128 apartment_name_label = Label(data, text='Apartment :')
129 apartment_name_label.grid(row=5,column=0)
130 fault_report_label = Label(data, text='Fault :')
131 fault_report_label.grid(row=6, column=0)
132
133 ##CREATING A SUBMIT BUTTON
134 submit_butt = Button(data, text='SUBMIT', fg='black', bg='gold', command=submit)
135 submit_butt.grid(row=7, column=0, columnspan=2, padx=5, pady=5, ipadx=10)
136
137 #creating a clear button
138 clear_butt = Button(data, text='CLEAR', fg='black',bg='gold', command=clear)
139 clear_butt.grid(row=7, column=1, columnspan=2, padx=1, pady=5)
140
141 #creating a display button
142 display_butt = Button(data, text='DISPLAY RECORDS', bg='gold', fg='black', command=display)
143 display_butt.grid(row=8, column=0, columnspan=2, pady=15, padx=15, ipadx=150)
144 data.mainloop()
Version Control
Run
Python Packages
TODO
Python Console
Problems
Terminal
Services
Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download once // Don't s... (3 minutes ag
100:44
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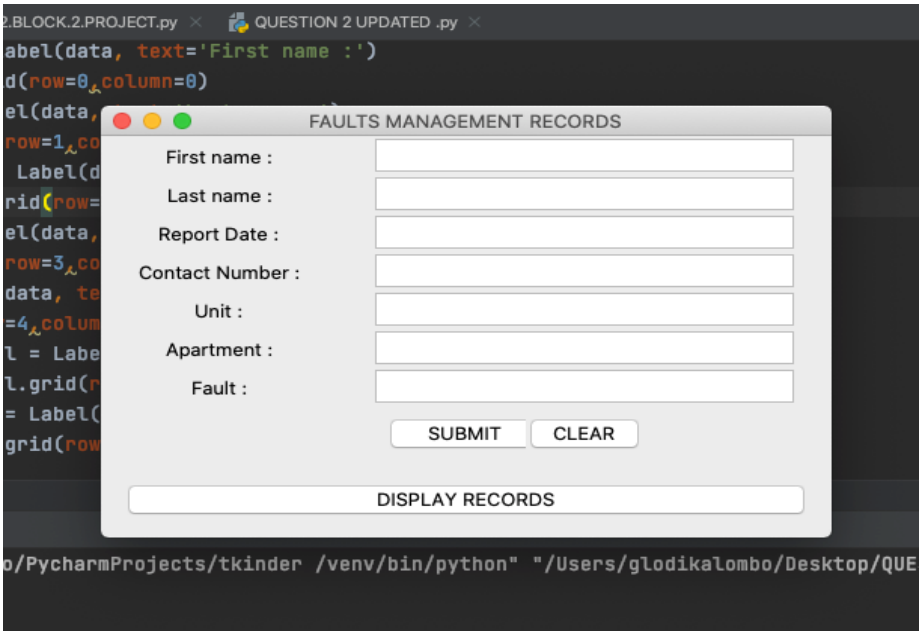
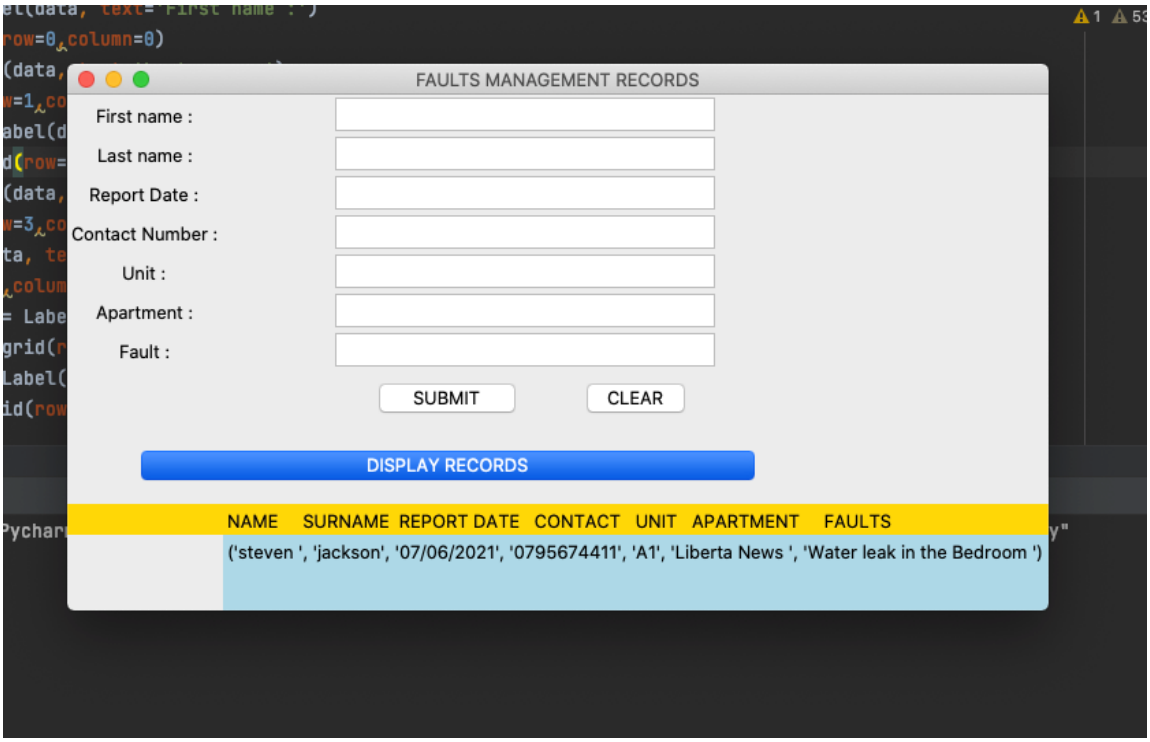
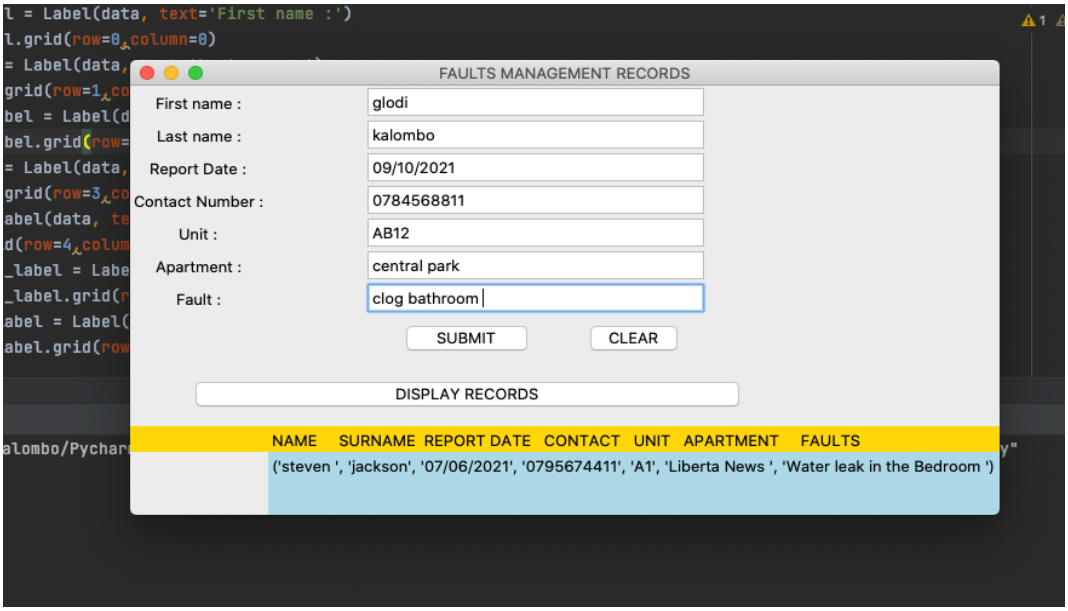
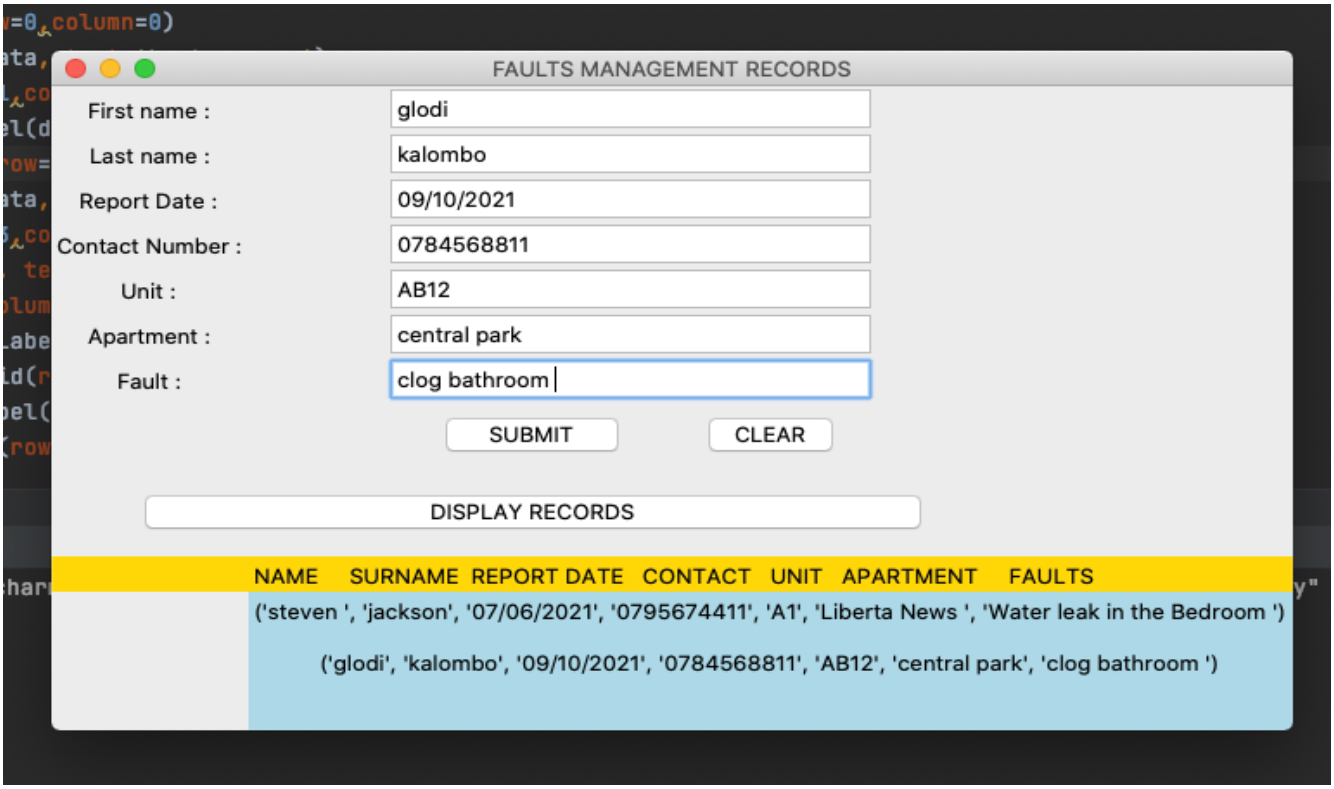
UTF-8
4

OUTPUT :


FAULTS MANAGEMENT RECORDS
First name :
Last name :
Report Date :
Contact Number :
Unit :
Apartment :
Fault :
SUBMIT
CLEAR
DISPLAY RECORDS

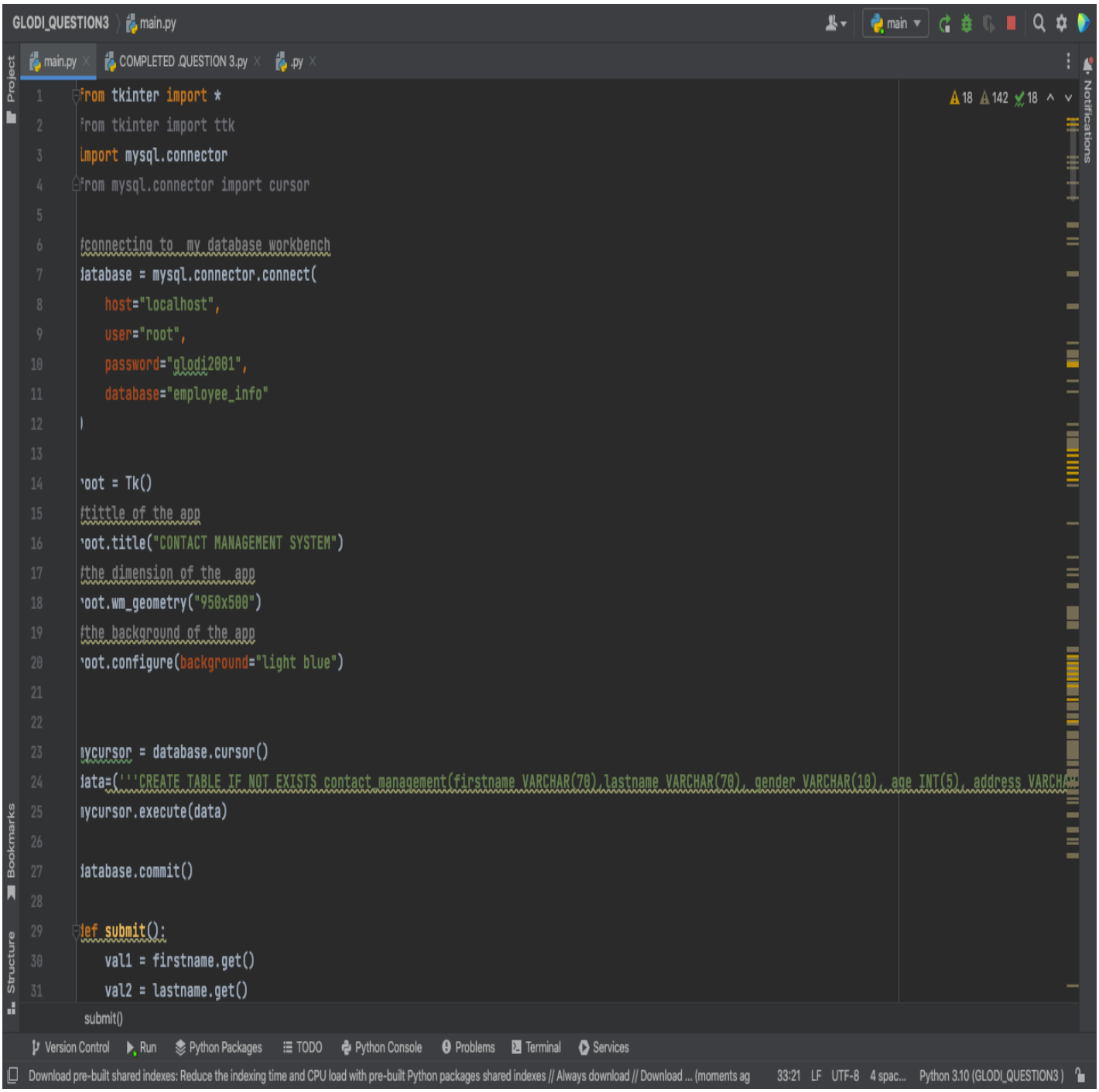

FAULTS MANAGEMENT RECORDS
First name :
Last name :
Report Date :
Contact Number :
Unit :
Apartment :
Fault :
SUBMIT
CLEAR
DISPLAY RECORDS
NAME SURNAME REPORT DATE CONTACT UNIT APARTMENT FAULTS
('steven ', 'jackson', '07/06/2021', '0795674411', 'A1', 'Liberta News ', 'Water leak in the Bedroom ')

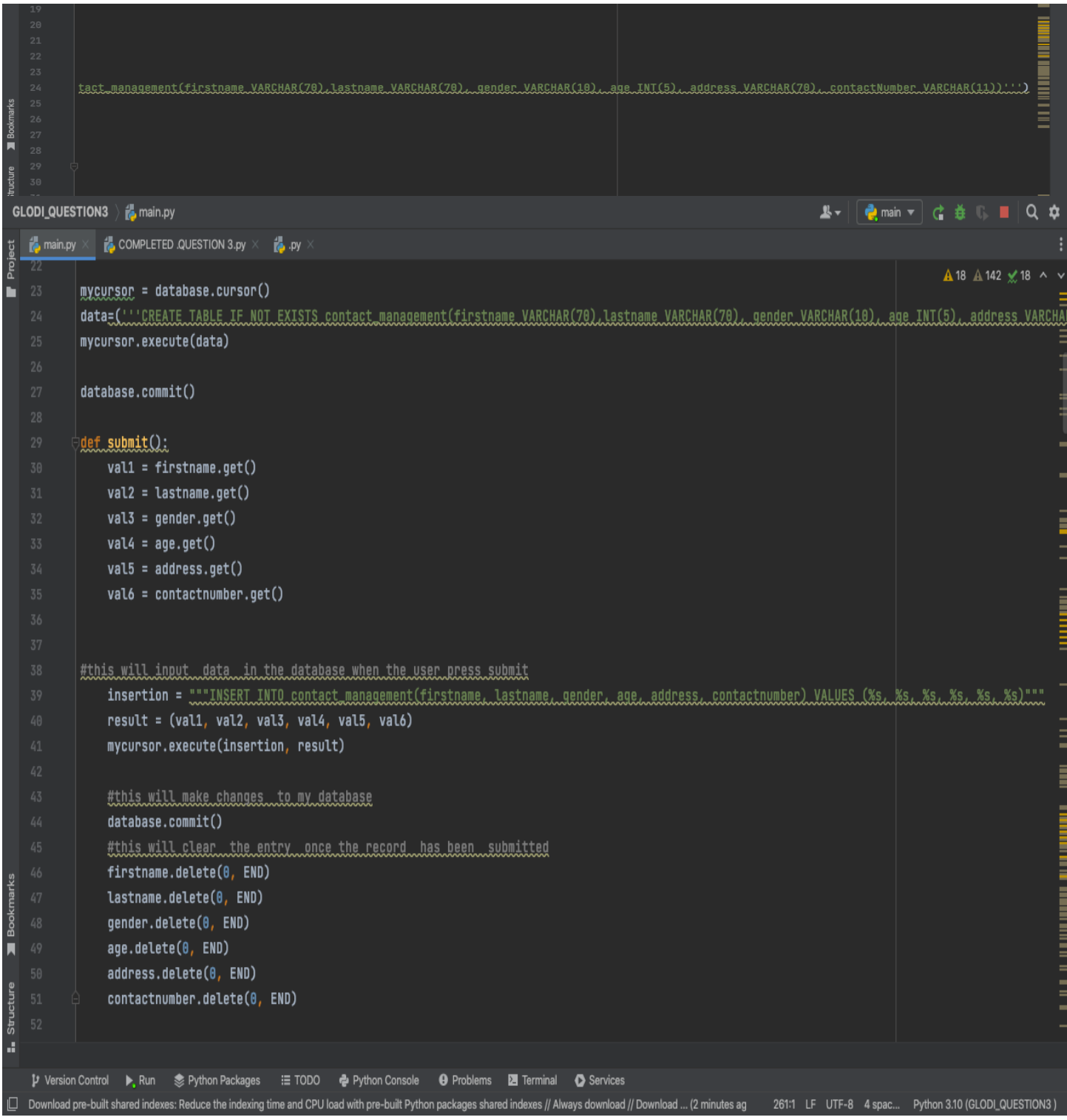


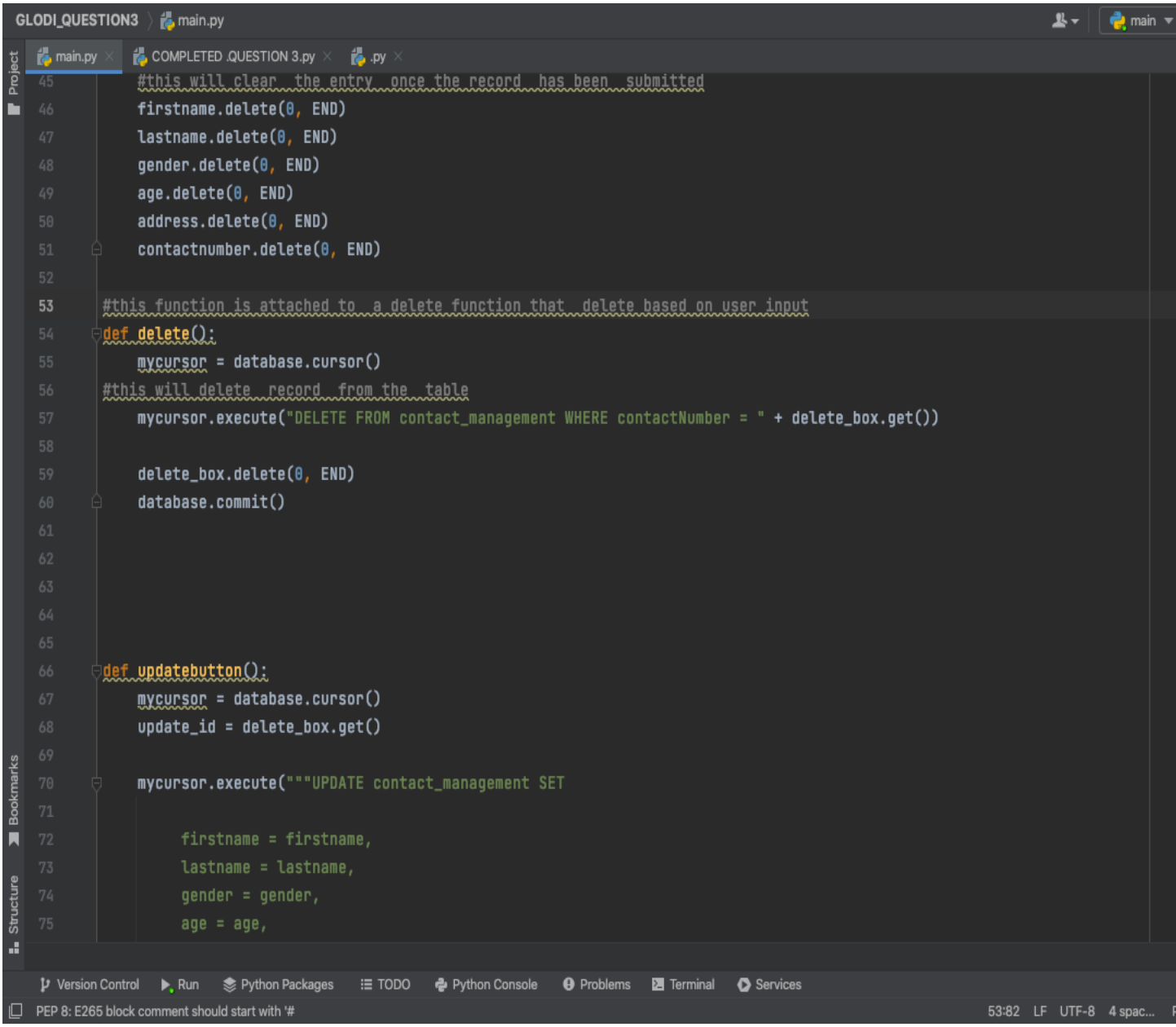


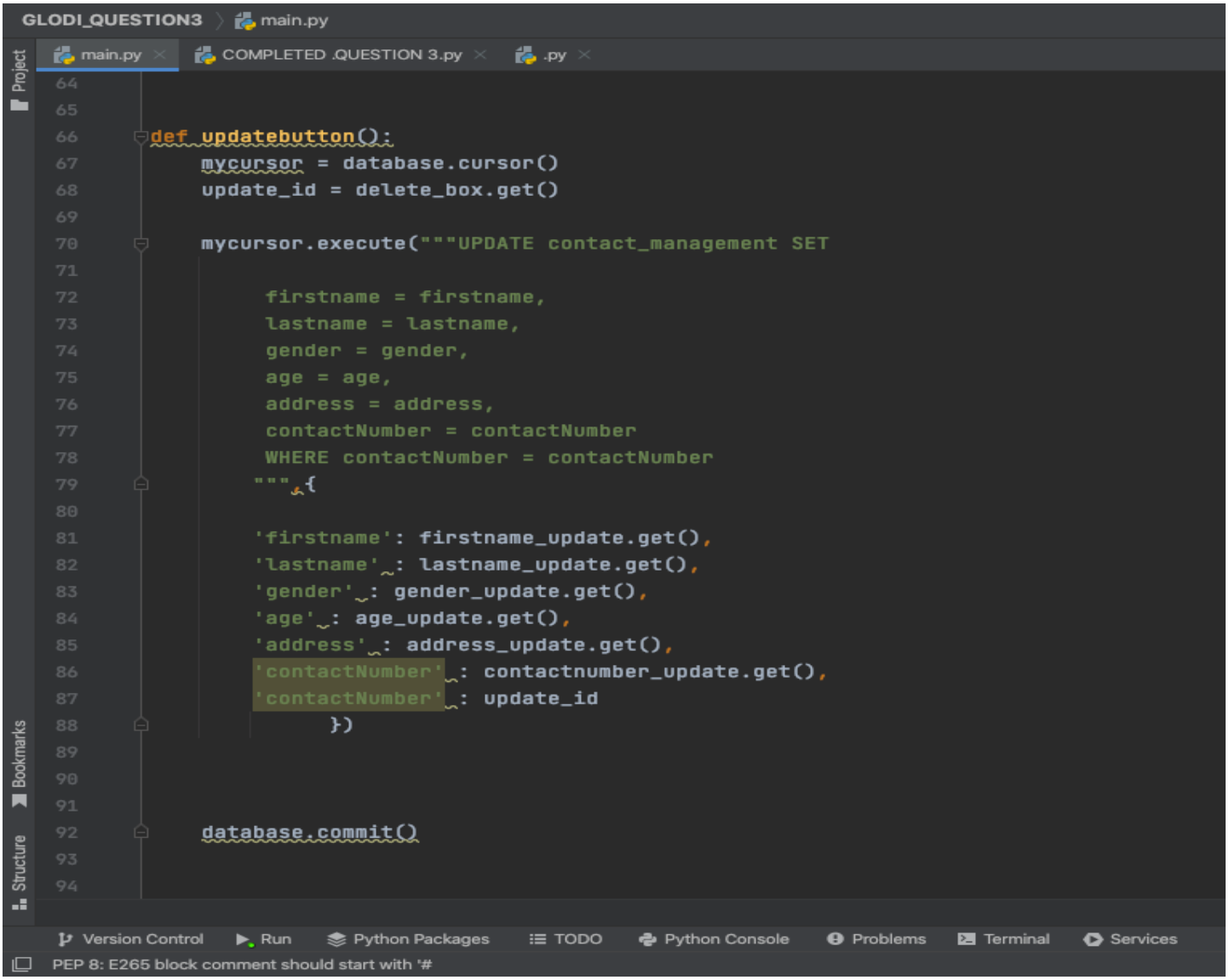
QUESSTION 3

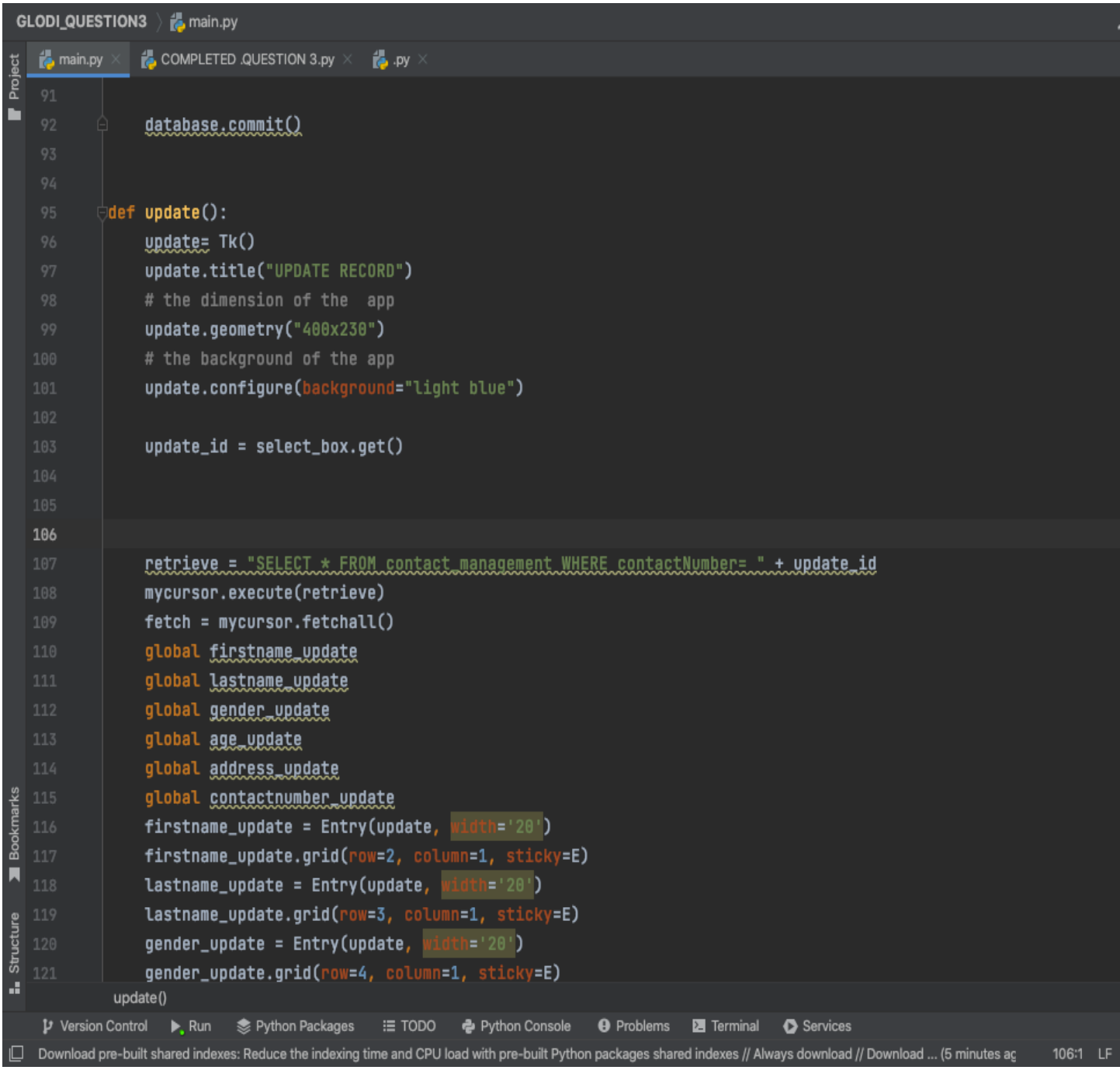
CODE:


GLODI_QUESTION3
main.py
main
main.py
COMPLETED .QUESTION 3.py
.py
Project
Notifications
Bookmarks
Structure
18 142 18
from tkinter import *
from tkinter import ttk
import mysql.connector
from mysql.connector import cursor
#connecting to my database workbench
database = mysql.connector.connect(
host="localhost",
user="root",
password="glodi2001",
database="employee_info"
)
root = Tk()
#tittle of the app
root.title("CONTACT MANAGEMENT SYSTEM")
#the dimension of the app
root.wm_geometry("950x500")
#the background of the app
root.configure(background="light blue")
mycursor = database.cursor()
data='''CREATE TABLE IF NOT EXISTS contact management(firstname VARCHAR(70),lastname VARCHAR(70), gender VARCHAR(10), age INT(5), address VARCHA
mycursor.execute(data)
database.commit()
def submit():
val1 = firstname.get()
val2 = lastname.get()
submit()
Version Control
Run
Python Packages
TODO
Python Console
Problems
Terminal
Services
Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download ... (moments ag
33:21
LF
UTF-8
4 spac...
Python 3.10 (GLODI_QUESTION3)


tact_management(firstname VARCHAR(70),lastname VARCHAR(70), gender VARCHAR(10), age INT(5), address VARCHAR(70), contactNumber VARCHAR(11))''')
GLODI_QUESTION3 main.py
main
main.py
COMPLETED .QUESTION 3.py
.py
18 142 18
mycursor = database.cursor()
data=('''CREATE TABLE IF NOT EXISTS contact_management(firstname VARCHAR(70),lastname VARCHAR(70), gender VARCHAR(10), age INT(5), address VARCHA
mycursor.execute(data)
database.commit()
def submit():
val1 = firstname.get()
val2 = lastname.get()
val3 = gender.get()
val4 = age.get()
val5 = address.get()
val6 = contactnumber.get()
#this will input data in the database when the user press submit
insertion = """INSERT INTO contact_management(firstname, lastname, gender, age, address, contactnumber) VALUES (%s, %s, %s, %s, %s, %s)"""
result = (val1, val2, val3, val4, val5, val6)
mycursor.execute(insertion, result)
#this will make changes to my database
database.commit()
#this will clear the entry once the record has been submitted
firstname.delete(0, END)
lastname.delete(0, END)
gender.delete(0, END)
age.delete(0, END)
address.delete(0, END)
contactnumber.delete(0, END)
Version Control
Run
Python Packages
TODO
Python Console
Problems
Terminal
Services
Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download ... (2 minutes ag
261:1 LF UTF-8 4 spac... Python 3.10 (GLODI_QUESTION3)


GLODI_QUESTION3
main.py
main
main.py
COMPLETED .QUESTION 3.py
.py
Project
#this will clear the entry once the record has been submitted
firstname.delete(0, END)
lastname.delete(0, END)
gender.delete(0, END)
age.delete(0, END)
address.delete(0, END)
contactnumber.delete(0, END)
#this function is attached to a delete function that delete based on user input
def delete():
mycursor = database.cursor()
#this will delete record from the table
mycursor.execute("DELETE FROM contact_management WHERE contactNumber = " + delete_box.get())
delete_box.delete(0, END)
database.commit()
def updatebutton():
mycursor = database.cursor()
update_id = delete_box.get()
mycursor.execute("""UPDATE contact_management SET
firstname = firstname,
lastname = lastname,
gender = gender,
age = age,
Bookmarks
Structure
Version Control
Run
Python Packages
TODO
Python Console
Problems
Terminal
Services
PEP 8: E265 block comment should start with '#
53:82
LF
UTF-8
4 spac...


GLODI_QUESTION3
main.py
main.py
COMPLETED .QUESTION 3.py
.py
Project
Bookmarks
Structure
64
65
66 def updatebutton():
67 mycursor = database.cursor()
68 update_id = delete_box.get()
69
70 mycursor.execute("""UPDATE contact_management SET
71
72 firstname = firstname,
73 lastname = lastname,
74 gender = gender,
75 age = age,
76 address = address,
77 contactNumber = contactNumber
78 WHERE contactNumber = contactNumber
79 """,{
80
81 'firstname': firstname_update.get(),
82 'lastname': lastname_update.get(),
83 'gender': gender_update.get(),
84 'age': age_update.get(),
85 'address': address_update.get(),
86 'contactNumber': contactnumber_update.get(),
87 'contactNumber': update_id
88 })
89
90
91
92 database.commit()
93
94
Version Control
Run
Python Packages
TODO
Python Console
Problems
Terminal
Services
PEP 8: E265 block comment should start with '#


GLODI_QUESTION3
main.py
main.py
COMPLETED .QUESTION 3.py
.py
Project
Bookmarks
Structure
database.commit()
def update():
update= Tk()
update.title("UPDATE RECORD")
# the dimension of the app
update.geometry("400x230")
# the background of the app
update.configure(background="light blue")
update_id = select_box.get()
retrieve = "SELECT * FROM contact_management WHERE contactNumber= " + update_id
mycursor.execute(retrieve)
fetch = mycursor.fetchall()
global firstname_update
global lastname_update
global gender_update
global age_update
global address_update
global contactnumber_update
firstname_update = Entry(update, width='20')
firstname_update.grid(row=2, column=1, sticky=E)
lastname_update = Entry(update, width='20')
lastname_update.grid(row=3, column=1, sticky=E)
gender_update = Entry(update, width='20')
gender_update.grid(row=4, column=1, sticky=E)
update()
Version Control
Run
Python Packages
TODO
Python Console
Problems
Terminal
Services
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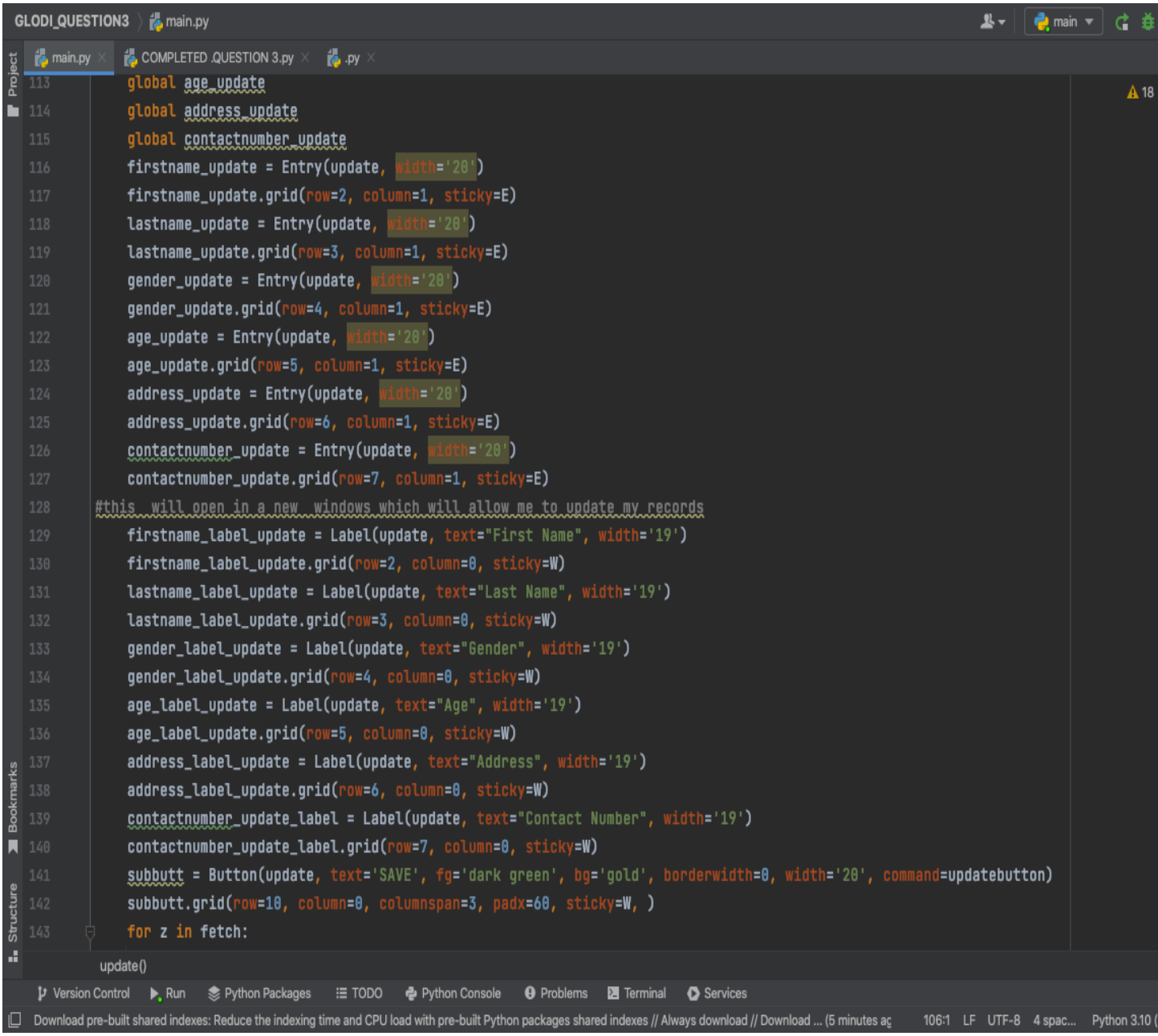
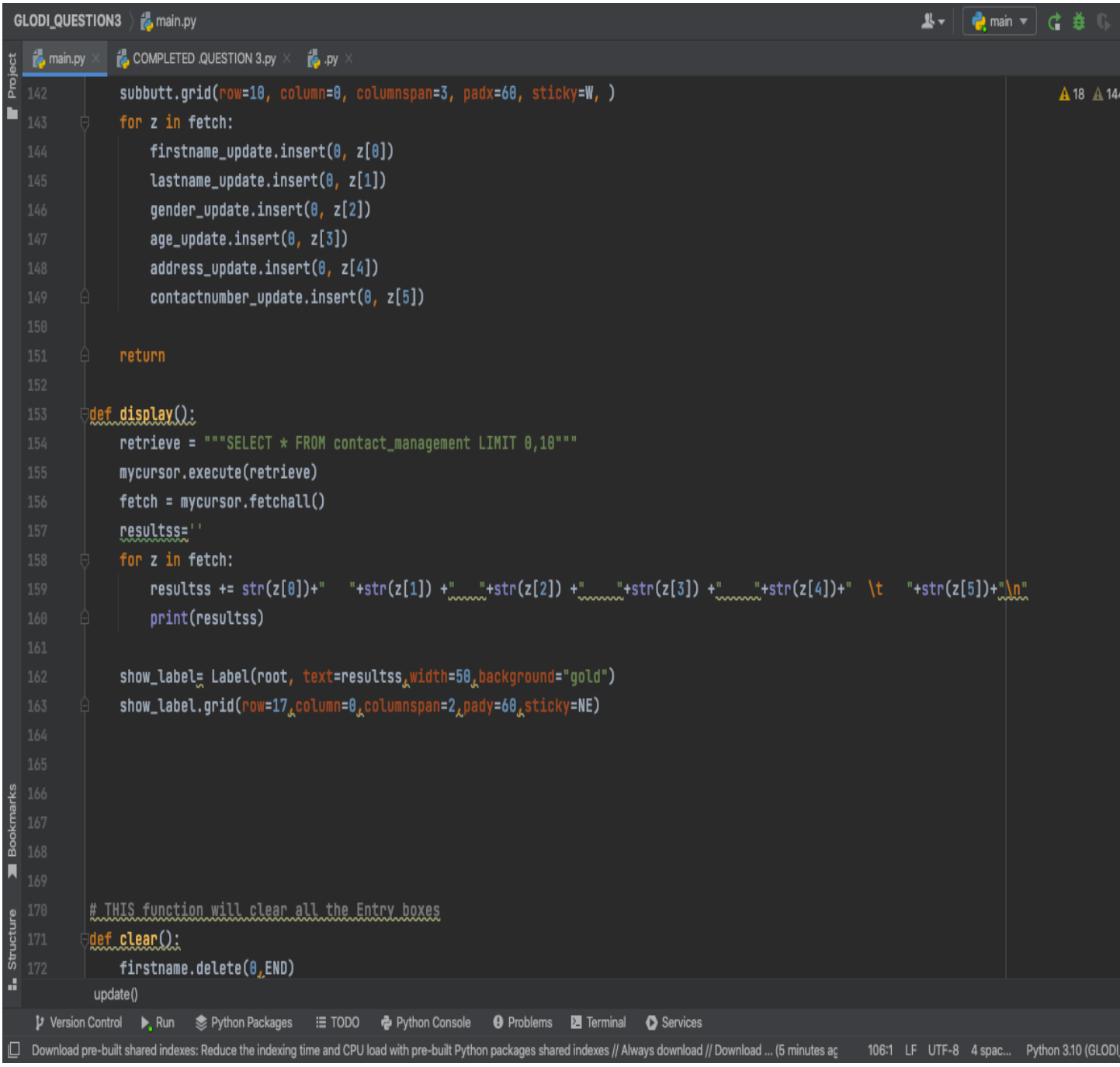
106:1
LF


GLODI_QUESTION3
main.py
main
main.py
COMPLETED .QUESTION 3.py
.py
18
global age_update
global address_update
global contactnumber_update
firstname_update = Entry(update, width='20')
firstname_update.grid(row=2, column=1, sticky=E)
lastname_update = Entry(update, width='20')
lastname_update.grid(row=3, column=1, sticky=E)
gender_update = Entry(update, width='20')
gender_update.grid(row=4, column=1, sticky=E)
age_update = Entry(update, width='20')
age_update.grid(row=5, column=1, sticky=E)
address_update = Entry(update, width='20')
address_update.grid(row=6, column=1, sticky=E)
contactnumber_update = Entry(update, width='20')
contactnumber_update.grid(row=7, column=1, sticky=E)
#this will open in a new windows which will allow me to update my records
firstname_label_update = Label(update, text="First Name", width='19')
firstname_label_update.grid(row=2, column=0, sticky=W)
lastname_label_update = Label(update, text="Last Name", width='19')
lastname_label_update.grid(row=3, column=0, sticky=W)
gender_label_update = Label(update, text="Gender", width='19')
gender_label_update.grid(row=4, column=0, sticky=W)
age_label_update = Label(update, text="Age", width='19')
age_label_update.grid(row=5, column=0, sticky=W)
address_label_update = Label(update, text="Address", width='19')
address_label_update.grid(row=6, column=0, sticky=W)
contactnumber_update_label = Label(update, text="Contact Number", width='19')
contactnumber_update_label.grid(row=7, column=0, sticky=W)
subbutt = Button(update, text='SAVE', fg='dark green', bg='gold', borderwidth=0, width='20', command=updatebutton)
subbutt.grid(row=10, column=0, columnspan=3, padx=60, sticky=W,)
for z in fetch:
update()
Version Control
Run
Python Packages
TODO
Python Console
Problems
Terminal
Services
Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always download // Download ... (5 minutes ag
106:1
LF
UTF-8
4 spac...
Python 3.10
Project
Bookmarks
Structure


GLODI_QUESTION3
main.py
main
main.py
COMPLETED .QUESTION 3.py
.py
Project
Bookmarks
Structure
18
14
subbutt.grid(row=10, column=0, columnspan=3, padx=60, sticky=W,)
for z in fetch:
firstname_update.insert(0, z[0])
lastname_update.insert(0, z[1])
gender_update.insert(0, z[2])
age_update.insert(0, z[3])
address_update.insert(0, z[4])
contactnumber_update.insert(0, z[5])
return
def display():
retrieve = """SELECT * FROM contact_management LIMIT 0,10"""
mycursor.execute(retrieve)
fetch = mycursor.fetchall()
resultss=''
for z in fetch:
resultss += str(z[0])+" "+str(z[1]) +" "+str(z[2]) +" "+str(z[3]) +" "+str(z[4])+" \t "+str(z[5])+"\n"
print(resultss)
show_label= Label(root, text=resultss,width=50,background="gold")
show_label.grid(row=17,column=0,columnspan=2,pady=60,sticky=NE)
# THIS function will clear all the Entry boxes
def clear():
firstname.delete(0,END)
update()
Version Control
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Python Packages
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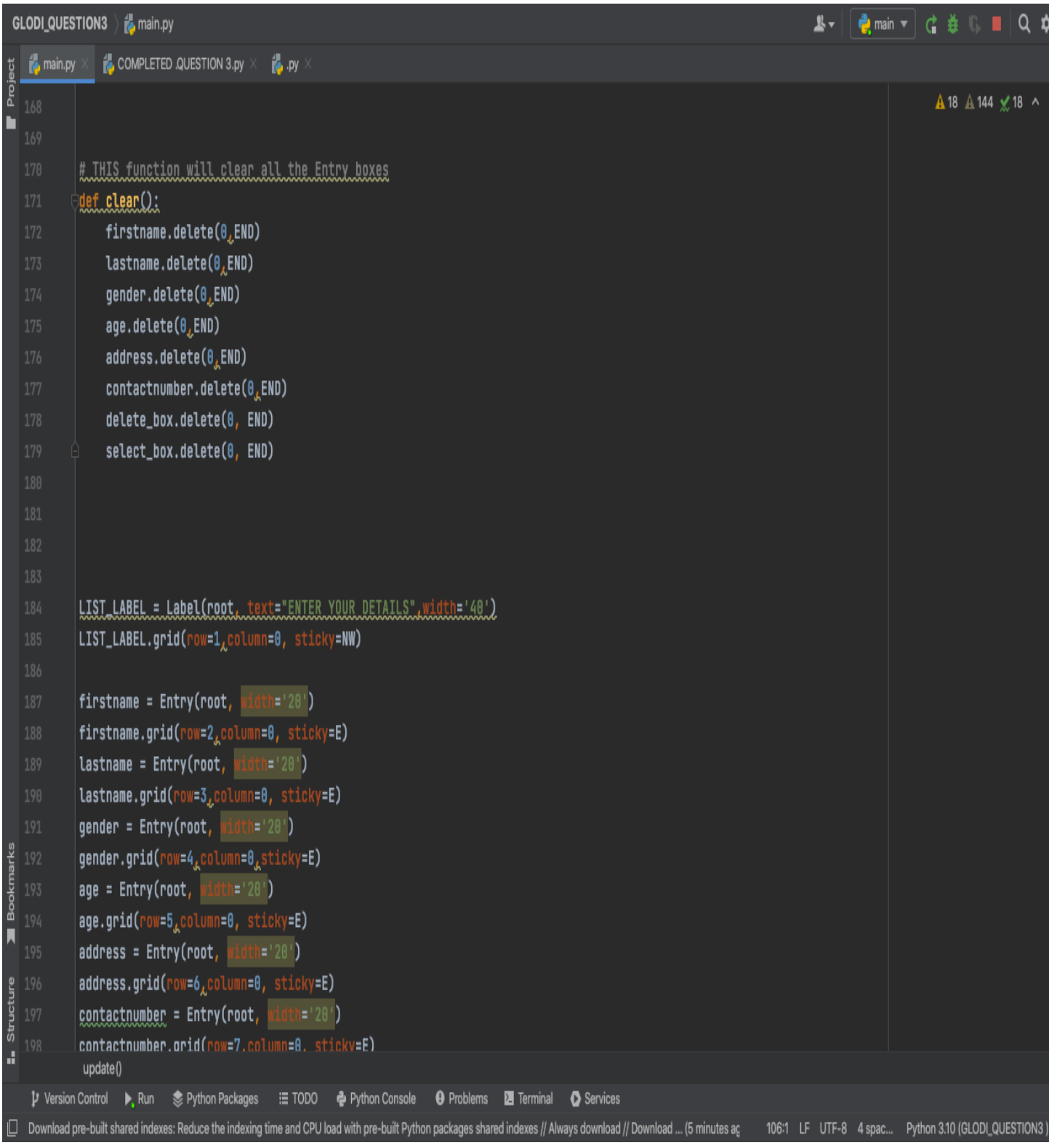
GLODI_QUESTION3
main.py
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# THIS function will clear all the Entry boxes
def clear():
firstname.delete(0,END)
lastname.delete(0,END)
gender.delete(0,END)
age.delete(0,END)
address.delete(0,END)
contactnumber.delete(0,END)
delete_box.delete(0, END)
select_box.delete(0, END)
LIST_LABEL = Label(root, text="ENTER YOUR DETAILS",width='40')
LIST_LABEL.grid(row=1,column=0, sticky=NW)
firstname = Entry(root, width='20')
firstname.grid(row=2,column=0, sticky=E)
lastname = Entry(root, width='20')
lastname.grid(row=3,column=0, sticky=E)
gender = Entry(root, width='20')
gender.grid(row=4,column=0,sticky=E)
age = Entry(root, width='20')
age.grid(row=5,column=0, sticky=E)
address = Entry(root, width='20')
address.grid(row=6,column=0, sticky=E)
contactnumber = Entry(root, width='20')
contactnumber.grid(row=7,column=0, sticky=E)
update()
Bookmarks
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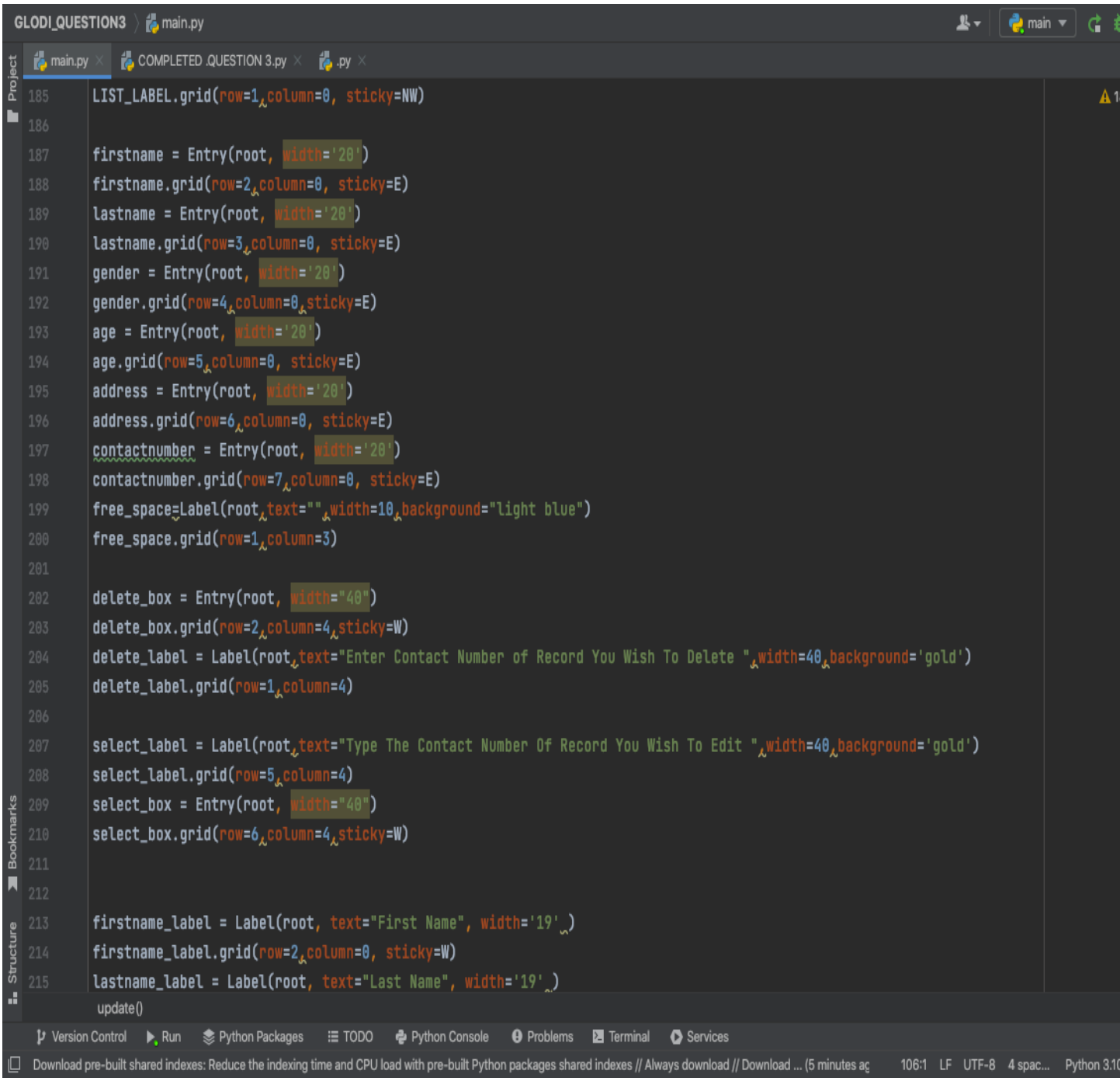
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main.py
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COMPLETED .QUESTION 3.py
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LIST_LABEL.grid(row=1,column=0, sticky=NW)
firstname = Entry(root, width='20')
firstname.grid(row=2,column=0, sticky=E)
lastname = Entry(root, width='20')
lastname.grid(row=3,column=0, sticky=E)
gender = Entry(root, width='20')
gender.grid(row=4,column=0,sticky=E)
age = Entry(root, width='20')
age.grid(row=5,column=0, sticky=E)
address = Entry(root, width='20')
address.grid(row=6,column=0, sticky=E)
contactnumber = Entry(root, width='20')
contactnumber.grid(row=7,column=0, sticky=E)
free_space=Label(root,text="",width=10,background="light blue")
free_space.grid(row=1,column=3)
delete_box = Entry(root, width="40")
delete_box.grid(row=2,column=4,sticky=W)
delete_label = Label(root,text="Enter Contact Number of Record You Wish To Delete ",width=40,background='gold')
delete_label.grid(row=1,column=4)
select_label = Label(root,text="Type The Contact Number Of Record You Wish To Edit ",width=40,background='gold')
select_label.grid(row=5,column=4)
select_box = Entry(root, width="40")
select_box.grid(row=6,column=4,sticky=W)
firstname_label = Label(root, text="First Name", width='19')
firstname_label.grid(row=2,column=0, sticky=W)
lastname_label = Label(root, text="Last Name", width='19')
update()
Project
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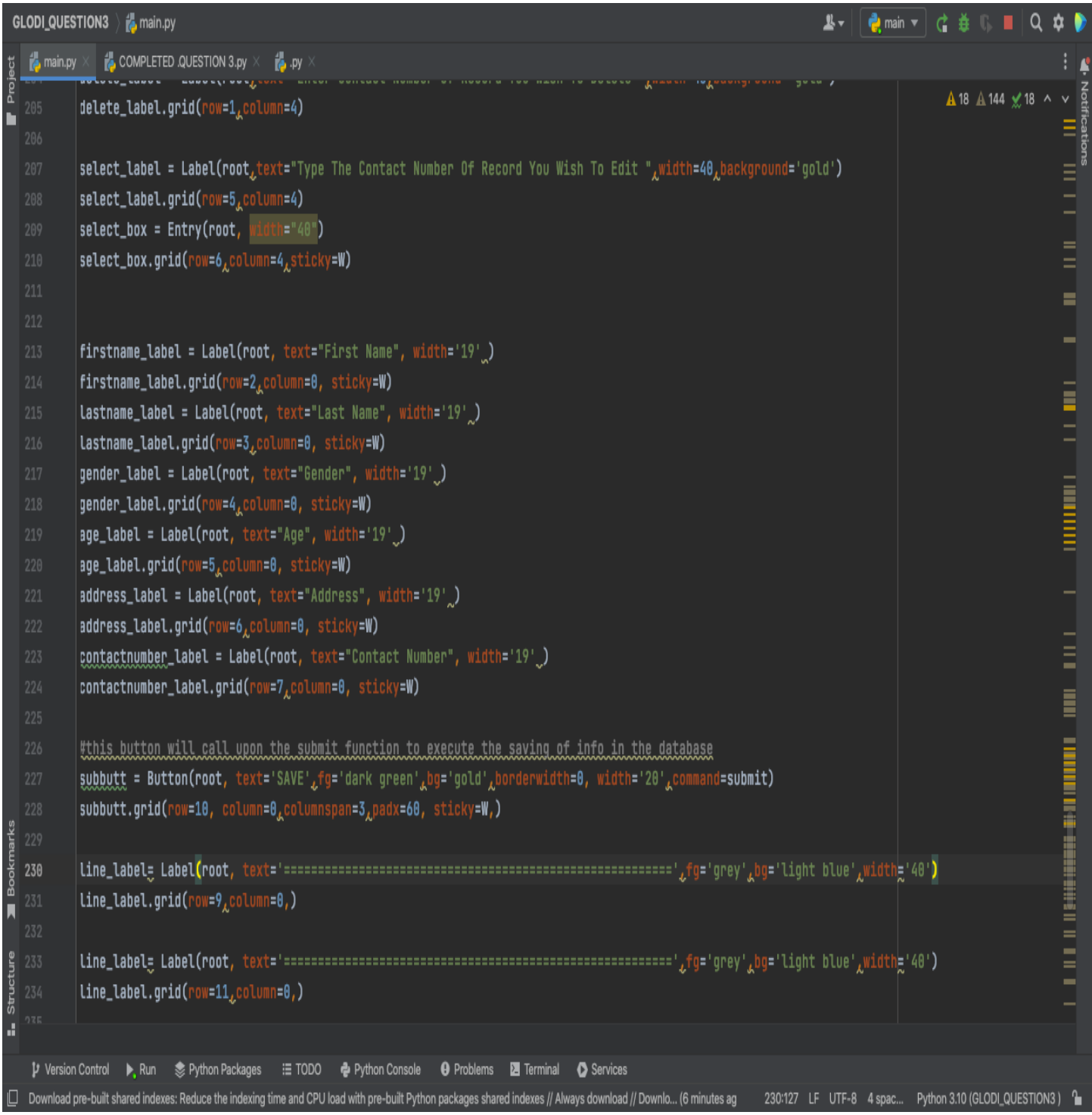
Python 3.10


GLODI_QUESTION3
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delete_label.grid(row=1,column=4)
select_label = Label(root,text="Type The Contact Number Of Record You Wish To Edit ",width=40,background='gold')
select_label.grid(row=5,column=4)
select_box = Entry(root, width="40")
select_box.grid(row=6,column=4,sticky=W)
firstname_label = Label(root, text="First Name", width='19')
firstname_label.grid(row=2,column=0, sticky=W)
lastname_label = Label(root, text="Last Name", width='19')
lastname_label.grid(row=3,column=0, sticky=W)
gender_label = Label(root, text="Gender", width='19')
gender_label.grid(row=4,column=0, sticky=W)
age_label = Label(root, text="Age", width='19')
age_label.grid(row=5,column=0, sticky=W)
address_label = Label(root, text="Address", width='19')
address_label.grid(row=6,column=0, sticky=W)
contactnumber_label = Label(root, text="Contact Number", width='19')
contactnumber_label.grid(row=7,column=0, sticky=W)
#this button will call upon the submit function to execute the saving of info in the database
subbutt = Button(root, text='SAVE',fg='dark green',bg='gold',borderwidth=0, width='20',command=submit)
subbutt.grid(row=10, column=0,columnspan=3,padx=60, sticky=W,)
line_label= Label(root, text='==========','grey','light blue','40')
line_label.grid(row=9,column=0,)
line_label= Label(root, text='==========','grey','light blue','40')
line_label.grid(row=11,column=0,)
Version Control
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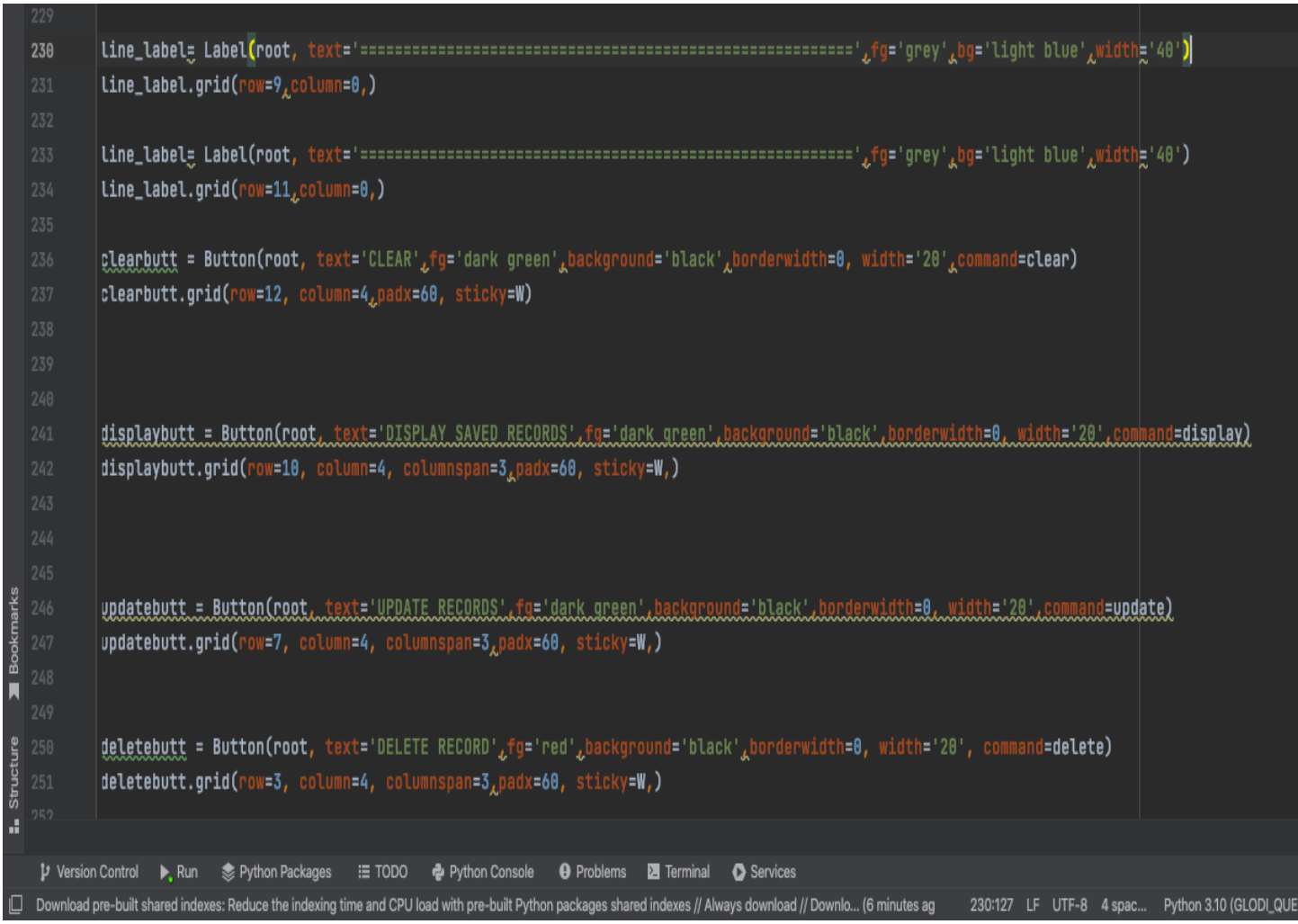
Python 3.10 (GLODI_QUESTION3)


line_label= Label(root, text='==========',fg='grey',bg='light blue',width='40')
line_label.grid(row=9,column=0,)
line_label= Label(root, text='==========',fg='grey',bg='light blue',width='40')
line_label.grid(row=11,column=0,)
clearbutt = Button(root, text='CLEAR',fg='dark green',background='black',borderwidth=0, width='20',command=clear)
clearbutt.grid(row=12, column=4,padx=60, sticky=W)
displaybutt = Button(root, text='DISPLAY SAVED RECORDS',fg='dark green',background='black',borderwidth=0, width='20',command=display)
displaybutt.grid(row=10, column=4, columnspan=3,padx=60, sticky=W,)
updatebutt = Button(root, text='UPDATE RECORDS',fg='dark green',background='black',borderwidth=0, width='20',command=update)
updatebutt.grid(row=7, column=4, columnspan=3,padx=60, sticky=W,)
deletebutt = Button(root, text='DELETE RECORD',fg='red',background='black',borderwidth=0, width='20', command=delete)
deletebutt.grid(row=3, column=4, columnspan=3,padx=60, sticky=W,)
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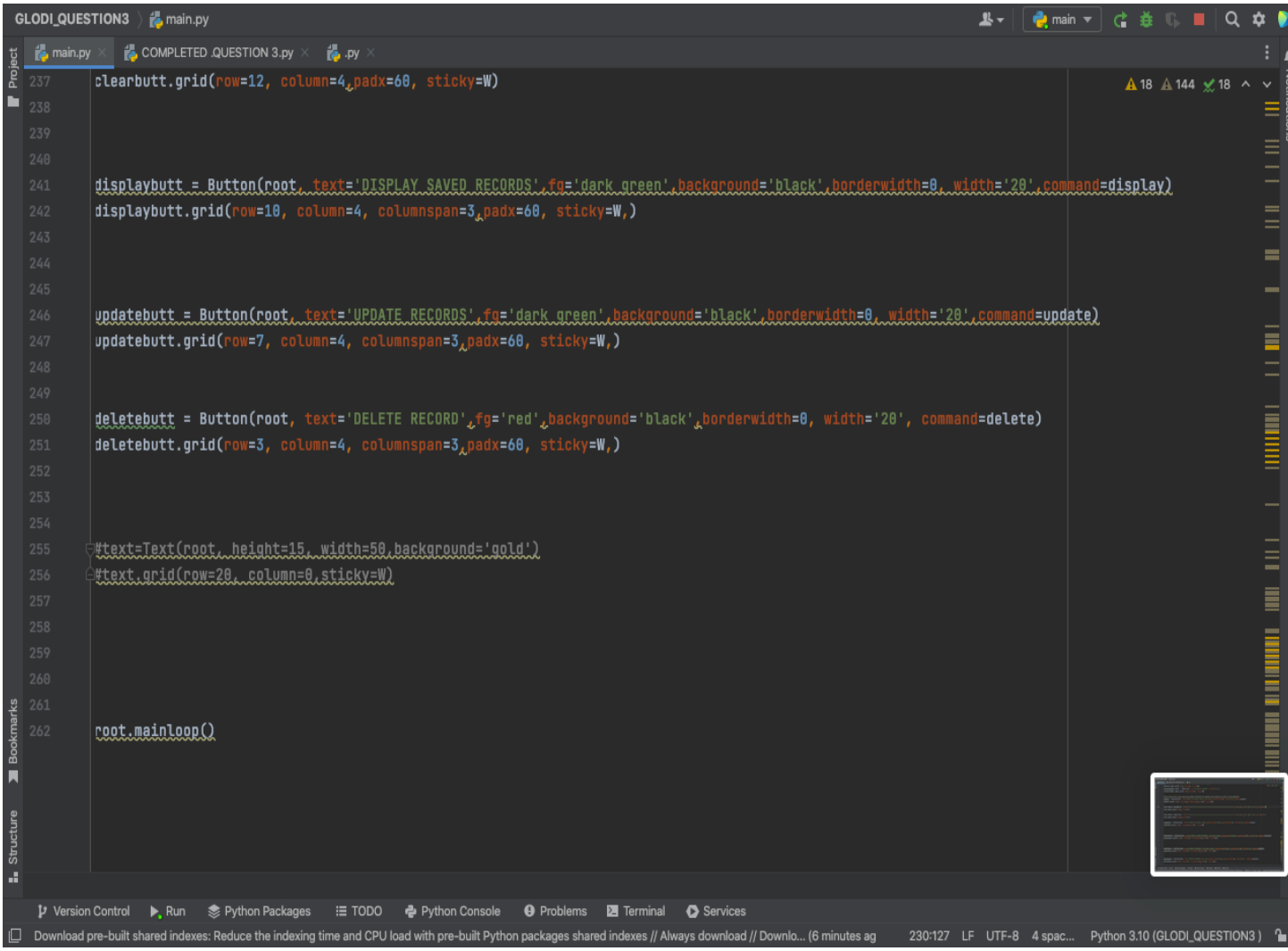
GLODI_QUESTION3
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clearbutt.grid(row=12, column=4,padx=60, sticky=W)
displaybutt = Button(root, text='DISPLAY SAVED RECORDS',fg='dark green',background='black',borderwidth=0, width='20',command=display)
displaybutt.grid(row=10, column=4, columnspan=3,padx=60, sticky=W,)
updatebutt = Button(root, text='UPDATE RECORDS',fg='dark green',background='black',borderwidth=0, width='20',command=update)
updatebutt.grid(row=7, column=4, columnspan=3,padx=60, sticky=W,)
deletebutt = Button(root, text='DELETE RECORD',fg='red',background='black',borderwidth=0, width='20', command=delete)
deletebutt.grid(row=3, column=4, columnspan=3,padx=60, sticky=W,)
#text=Text(root, height=15, width=50,background='gold')
#text.grid(row=20, column=0,sticky=W)
root.mainloop()
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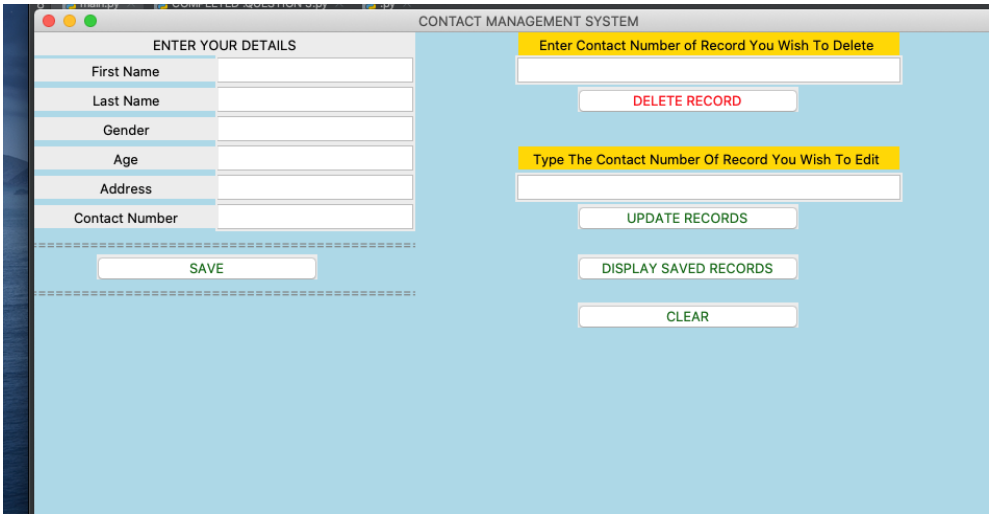
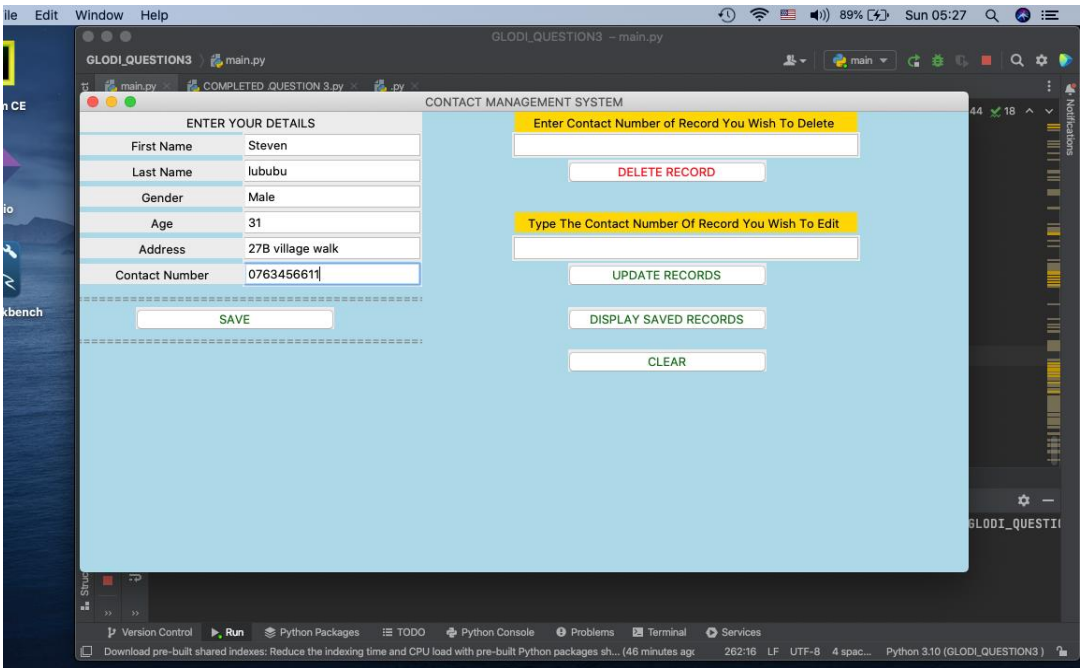
Python 3.10 (GLODI_QUESTION3)

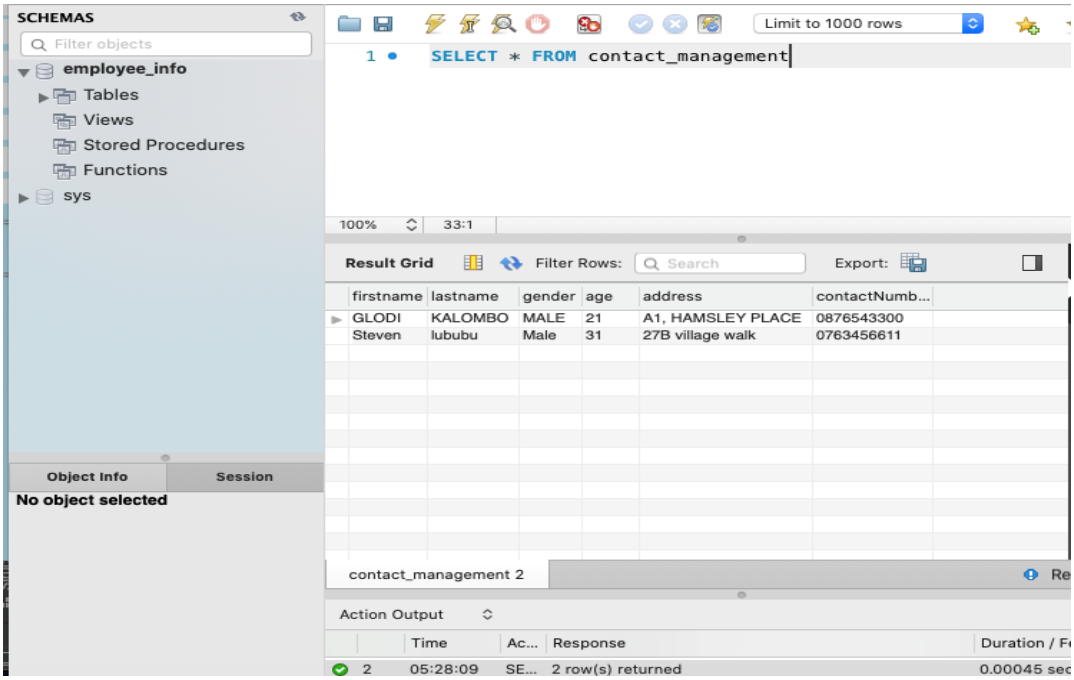
OUTPUT : QUESTION 3



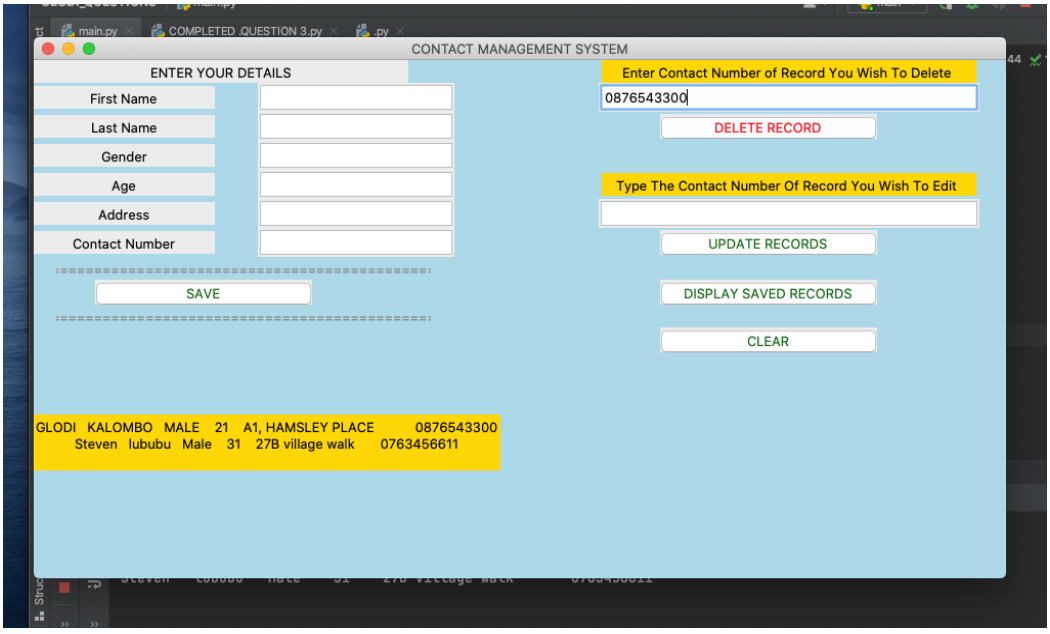


Inputting data in the screenshot above

The inputted data displays in the database MySQL

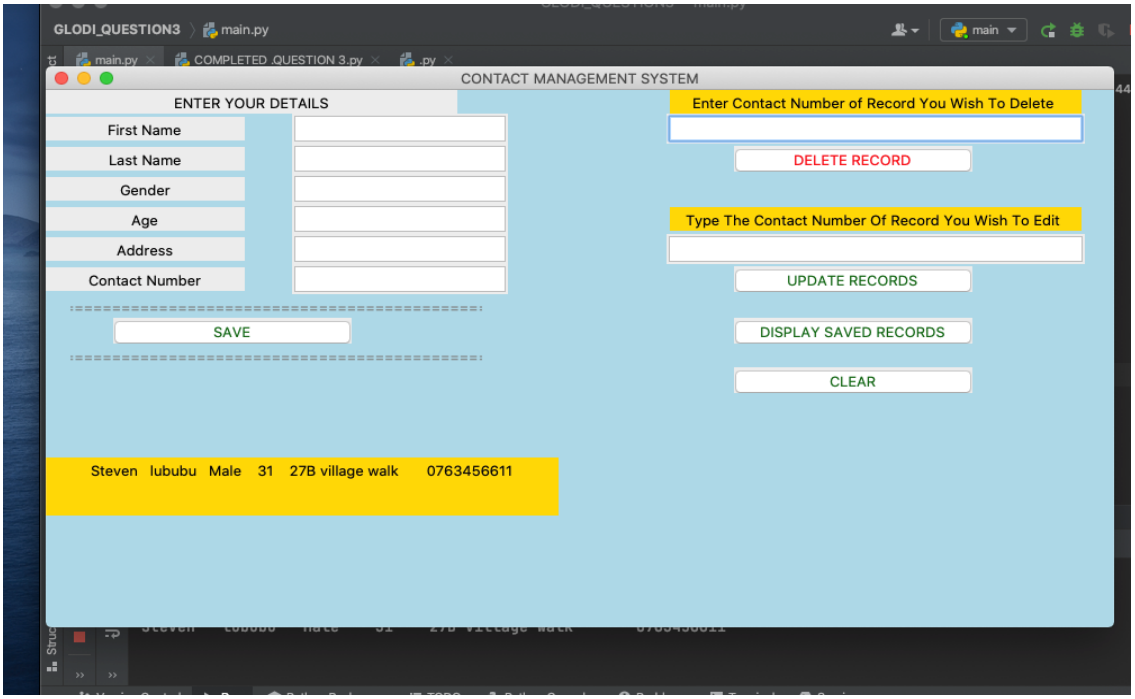


Clicked display which displays the information from the database at bottom left of the gui

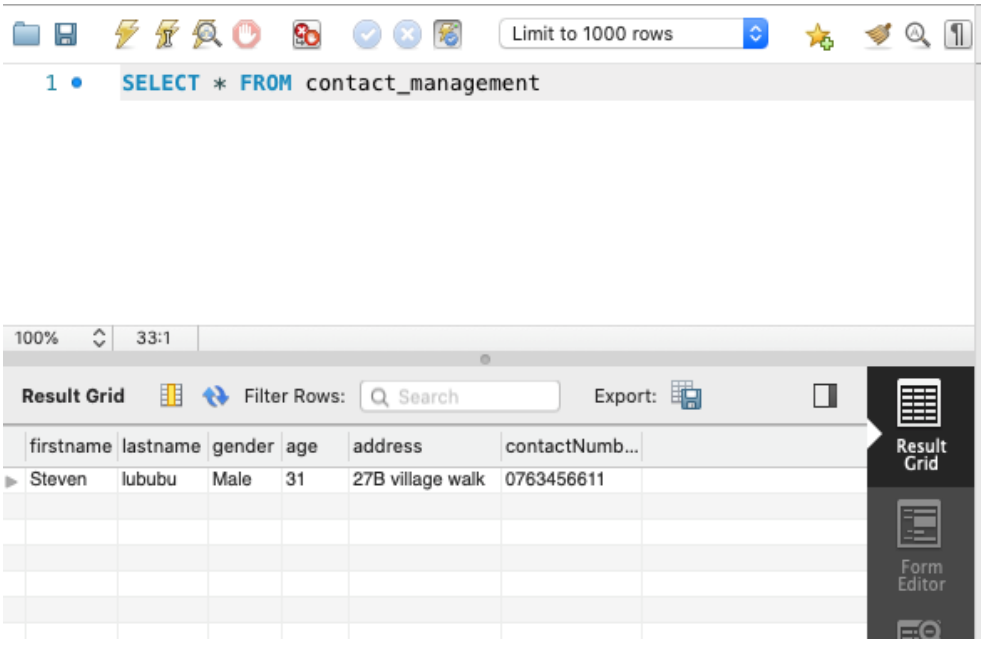


Entering. Contact number. Of the record Glodi on the delete box. To delete it by pressing delete

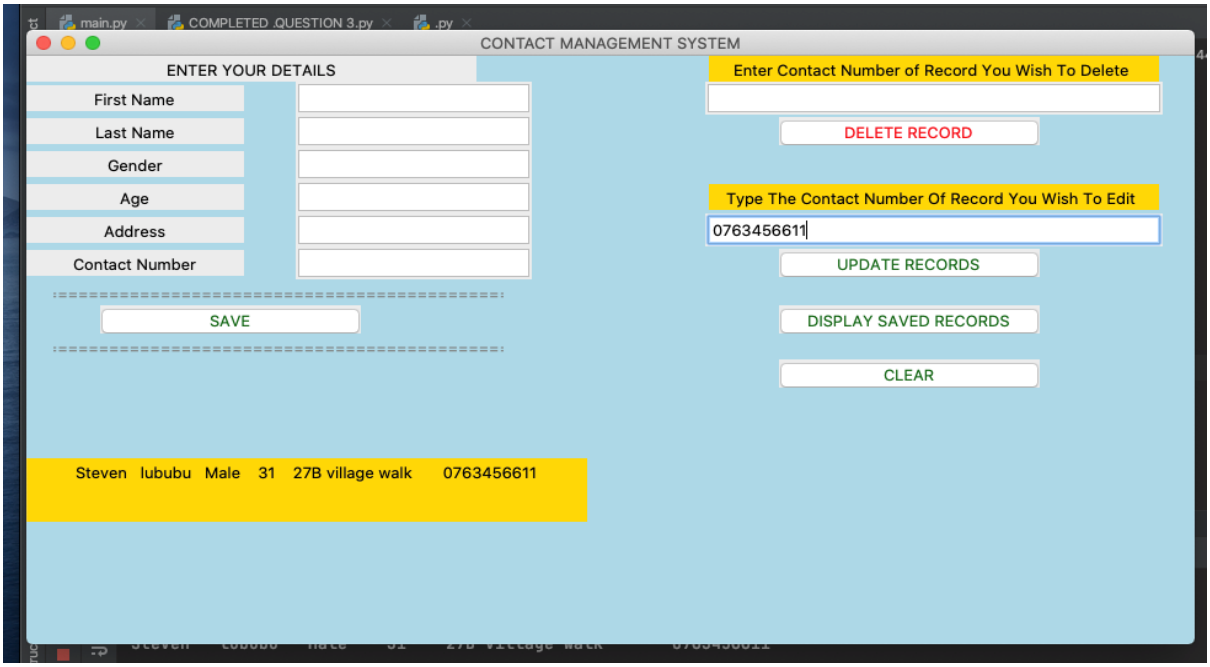
Now only steven record remains, Goldi's record been deleted has displayed

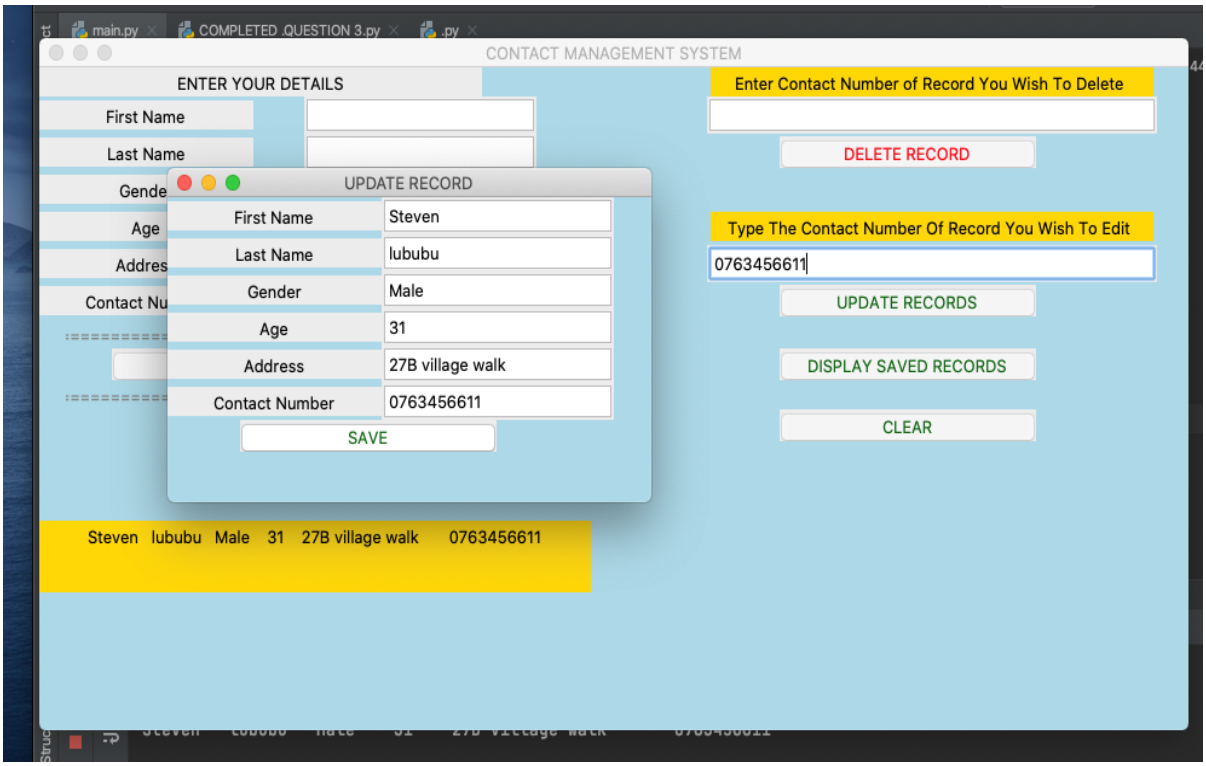


Now only. The steven record remains in the database mysql



Updating the record of steven by entering. The contact number in the update entry



By clicking update once the number been entered. A new window will pop up with info

Of the record you have selected, edit and submit