Assignment Answer Sheet

Campus	Tyger Valley	**Faculty**	BSc information and technology
Module Code	ITAPA1-B11	**Module Name**	Python programing
Student Name	Glodi – kalombo		
Student Number	D1LXT16D9		
Lecturer Name	Mr Steve Lububu		

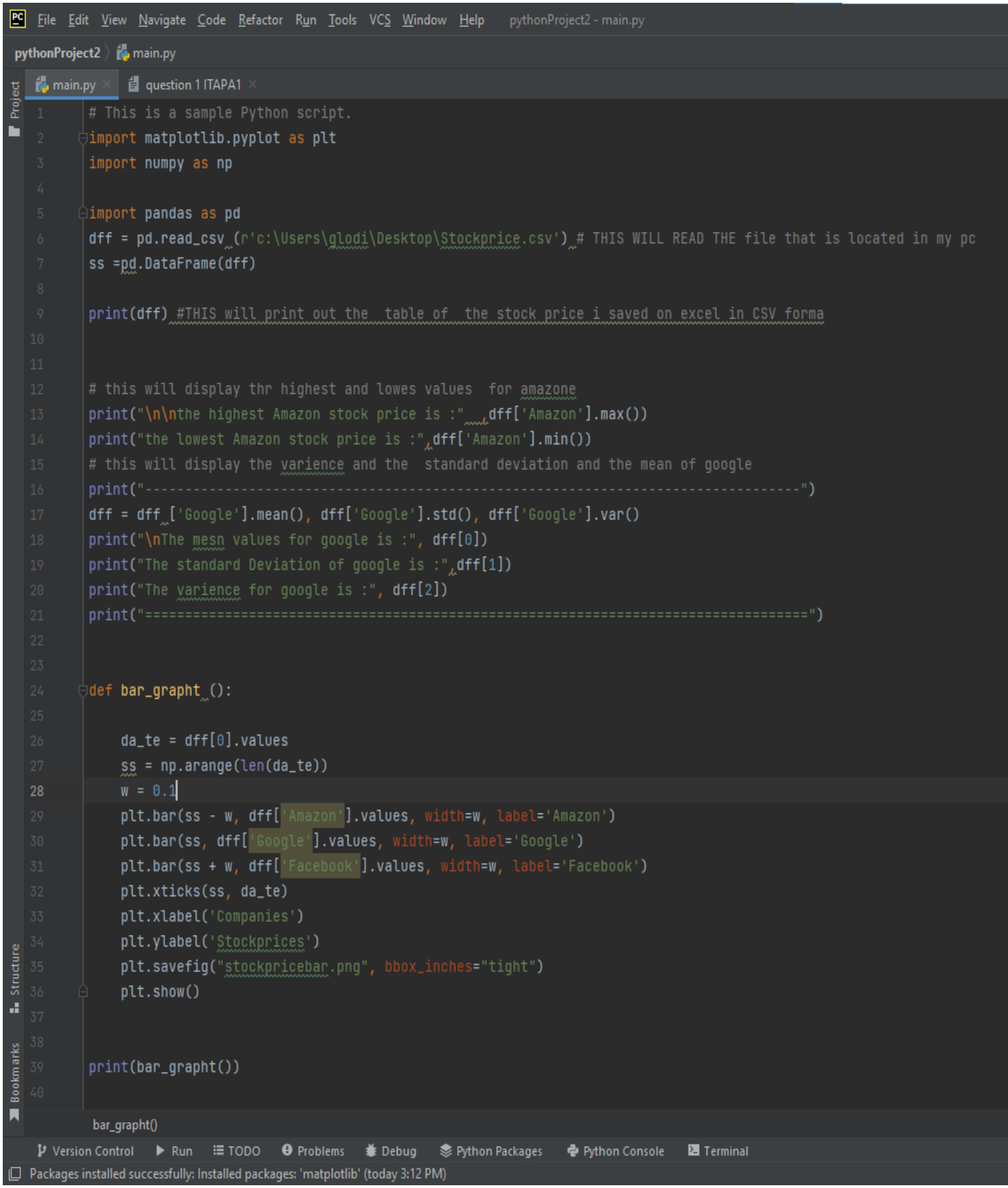
Declaration

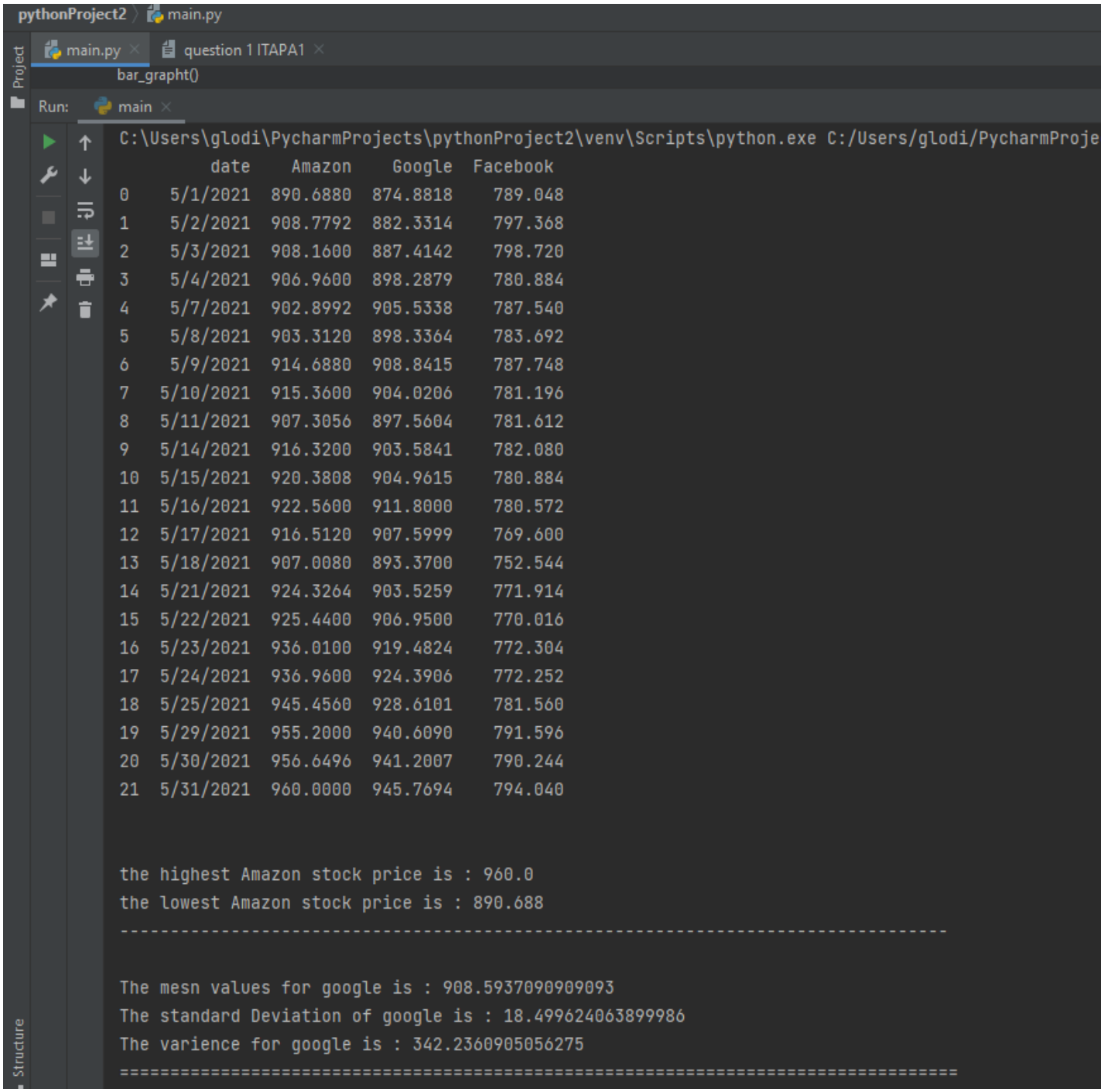
"I declare that this assignment is my own original work except for source material explicitly acknowledged, and that the same or related material has not been previously, or is being simultaneously, submitted for this or any other course. I also acknowledge that I am aware of the Institution's policy and regulations on honesty in academic work as set out in the Pearson Institute of Higher Education Conditions of Enrolment, and of the disciplinary guidelines applicable to breaches of such policy and regulations."

Start writing from here

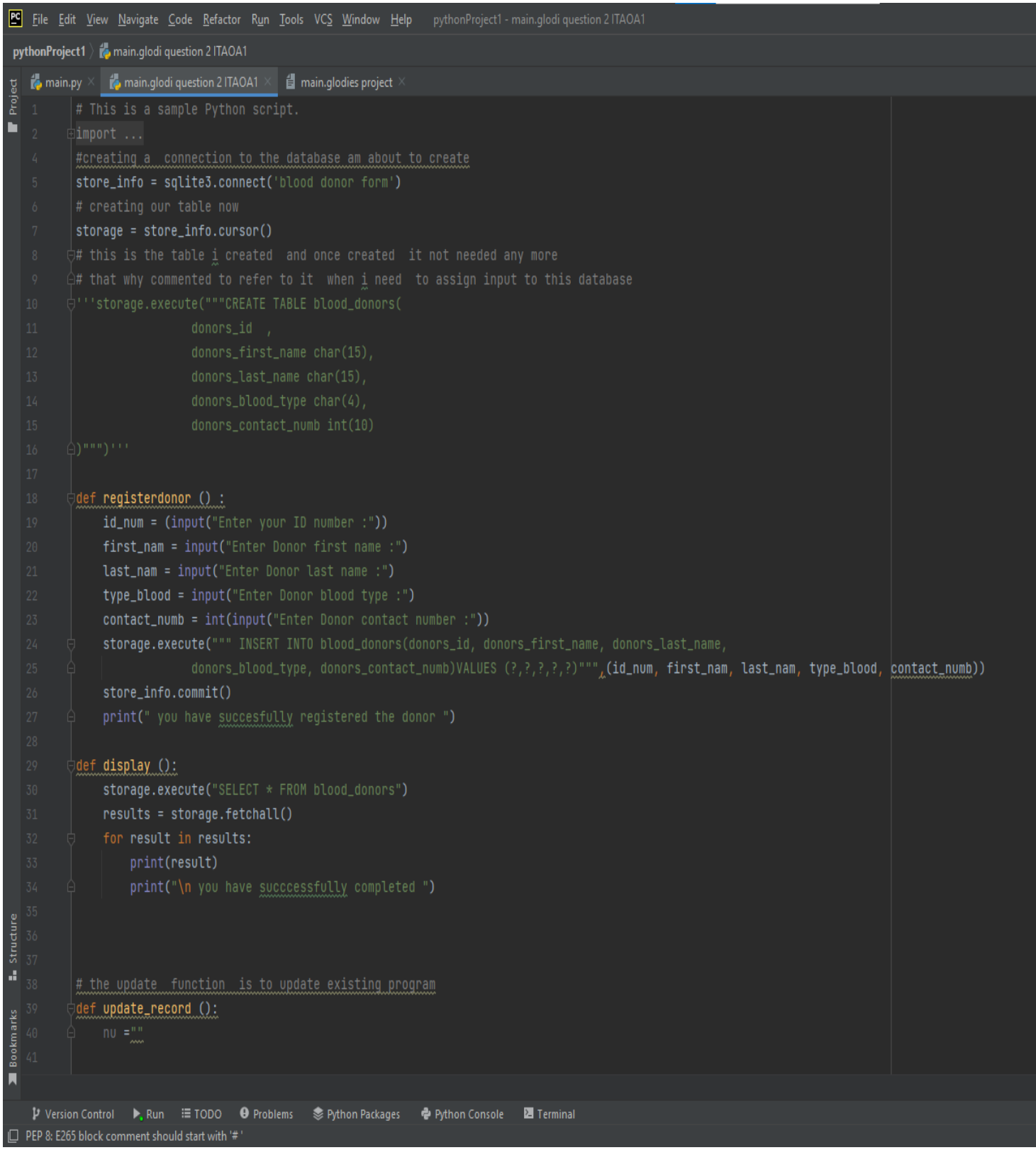
SECTION A

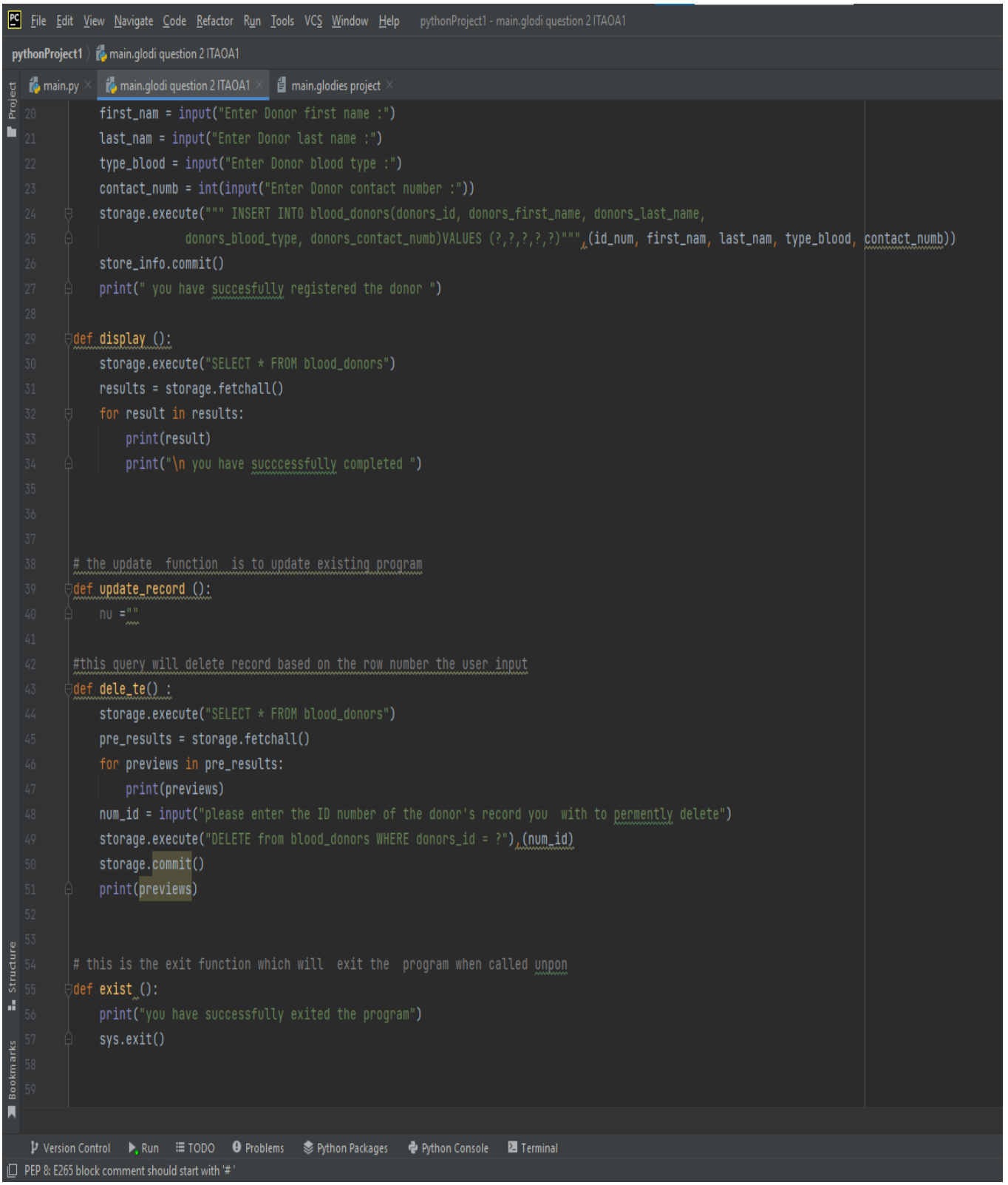
QUETSION1

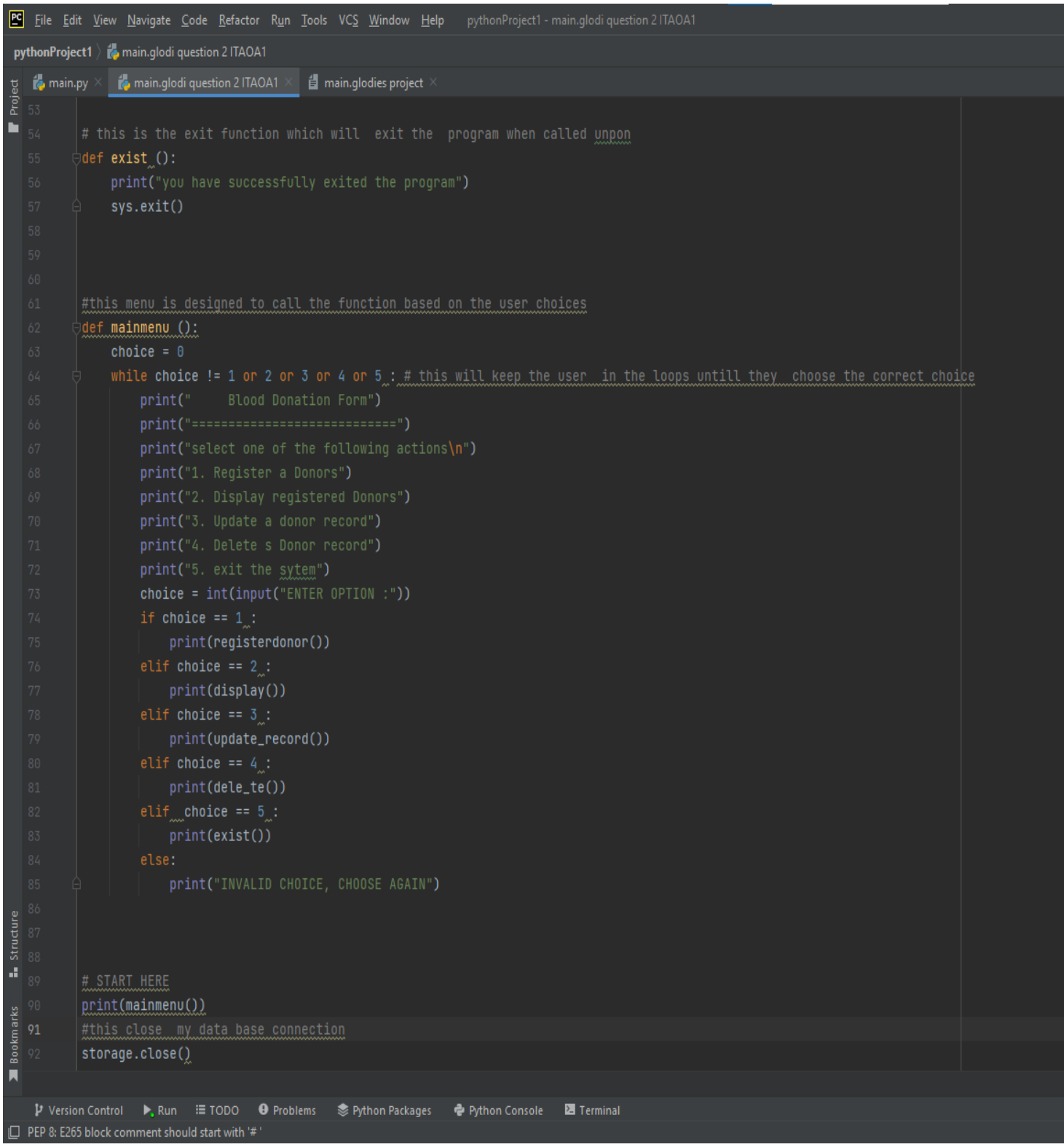

File Edit View Navigate Code Refactor Run Tools VCS Window Help pythonProject2 - main.py
pythonProject2 main.py
main.py question 1 ITAPA1
# This is a sample Python script.
import matplotlib.pyplot as plt
import numpy as np
import pandas as pd
dff = pd.read_csv (r'c:\Users\glodi\Desktop\Stockprice.csv') # THIS WILL READ THE file that is located in my pc
ss =pd.DataFrame(dff)
print(dff) #THIS will print out the table of the stock price i saved on excel in CSV forma
# this will display thr highest and lowes values for amazone
print("\n\nthe highest Amazon stock price is :", dff['Amazon'].max())
print("the lowest Amazon stock price is :", dff['Amazon'].min())
# this will display the varience and the standard deviation and the mean of google
print("----------")
dff = dff ['Google'].mean(), dff['Google'].std(), dff['Google'].var()
print("\nThe mesn values for google is :", dff[0])
print("The standard Deviation of google is :", dff[1])
print("The varience for google is :", dff[2])
print("==========")
def bar_grapht ():
da_te = dff[0].values
ss = np.arange(len(da_te))
w = 0.1
plt.bar(ss - w, dff['Amazon'].values, width=w, label='Amazon')
plt.bar(ss, dff['Google '].values, width=w, label='Google')
plt.bar(ss + w, dff['Facebook'].values, width=w, label='Facebook')
plt.xticks(ss, da_te)
plt.xlabel('Companies')
plt.ylabel('Stockprices')
plt.savefig("stockpricebar.png", bbox_inches="tight")
plt.show()
print(bar_grapht())
bar_grapht()
Version Control Run TODO Problems Debug Python Packages Python Console Terminal
Packages installed successfully: Installed packages: 'matplotlib' (today 3:12 PM)

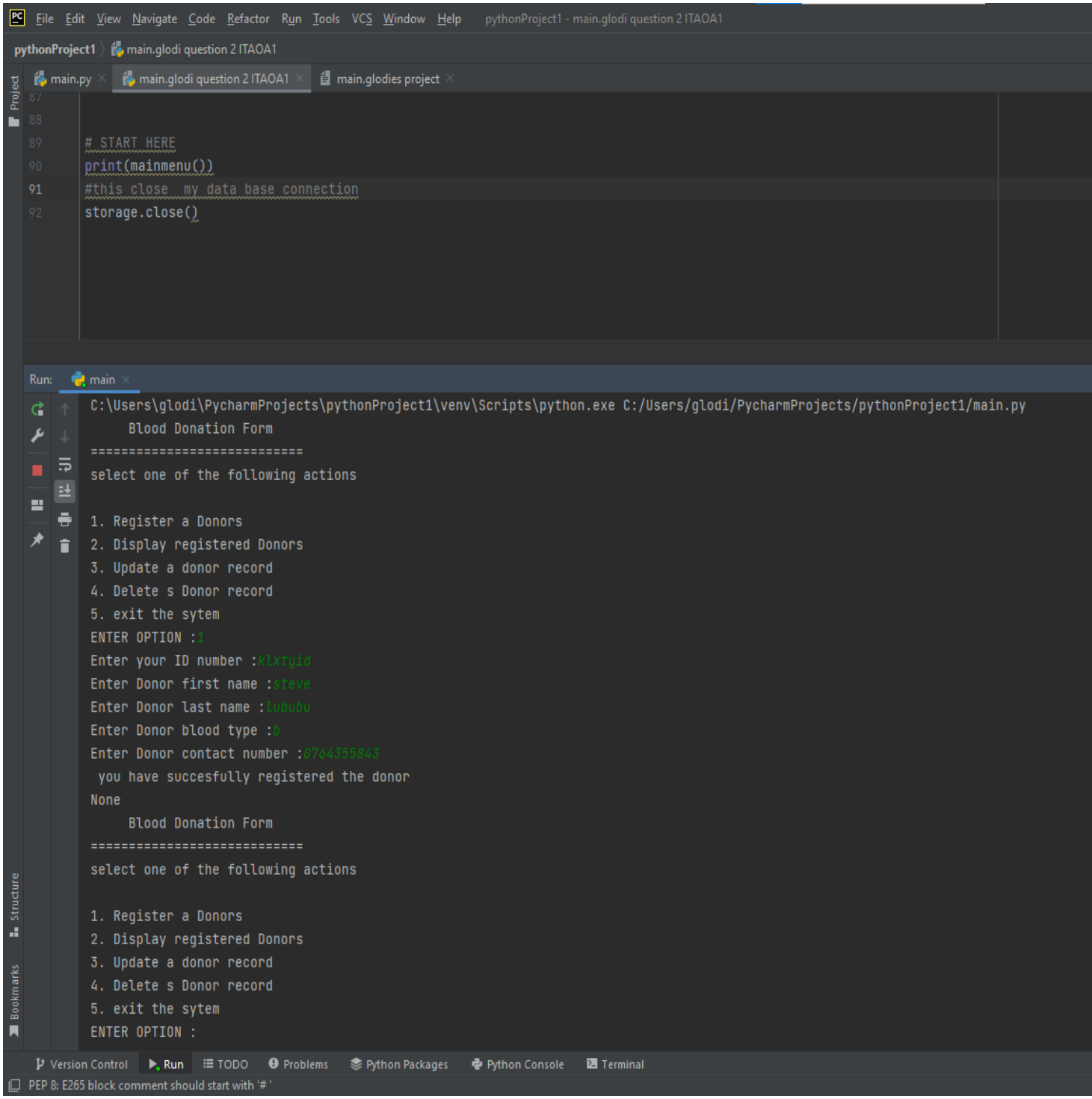

pythonProject2
main.py
main.py
question 1 ITAPA1
bar_grapht()
Run:
main
C:\Users\glodi\PycharmProjects\pythonProject2\venv\Scripts\python.exe C:/Users/glodi/PycharmProje
date Amazon Google Facebook
0 5/1/2021 890.6880 874.8818 789.048
1 5/2/2021 908.7792 882.3314 797.368
2 5/3/2021 908.1600 887.4142 798.720
3 5/4/2021 906.9600 898.2879 780.884
4 5/7/2021 902.8992 905.5338 787.540
5 5/8/2021 903.3120 898.3364 783.692
6 5/9/2021 914.6880 908.8415 787.748
7 5/10/2021 915.3600 904.0206 781.196
8 5/11/2021 907.3056 897.5604 781.612
9 5/14/2021 916.3200 903.5841 782.080
10 5/15/2021 920.3808 904.9615 780.884
11 5/16/2021 922.5600 911.8000 780.572
12 5/17/2021 916.5120 907.5999 769.600
13 5/18/2021 907.0080 893.3700 752.544
14 5/21/2021 924.3264 903.5259 771.914
15 5/22/2021 925.4400 906.9500 770.016
16 5/23/2021 936.0100 919.4824 772.304
17 5/24/2021 936.9600 924.3906 772.252
18 5/25/2021 945.4560 928.6101 781.560
19 5/29/2021 955.2000 940.6090 791.596
20 5/30/2021 956.6496 941.2007 790.244
21 5/31/2021 960.0000 945.7694 794.040
the highest Amazon stock price is : 960.0
the lowest Amazon stock price is : 890.688
The mesn values for google is : 908.5937090909093
The standard Deviation of google is : 18.499624063899986
The varience for google is : 342.2360905056275
Project
Structure

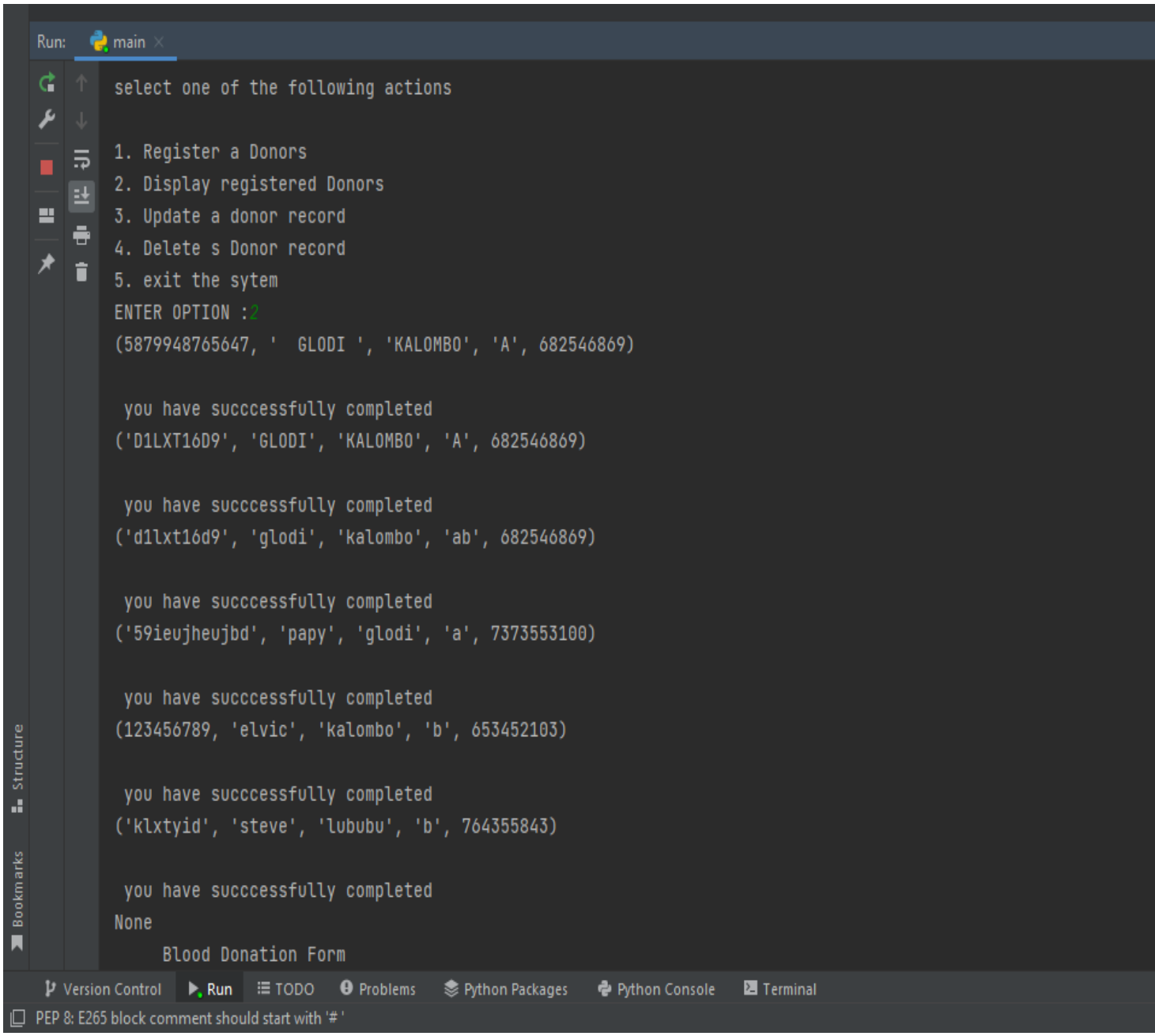
Question2

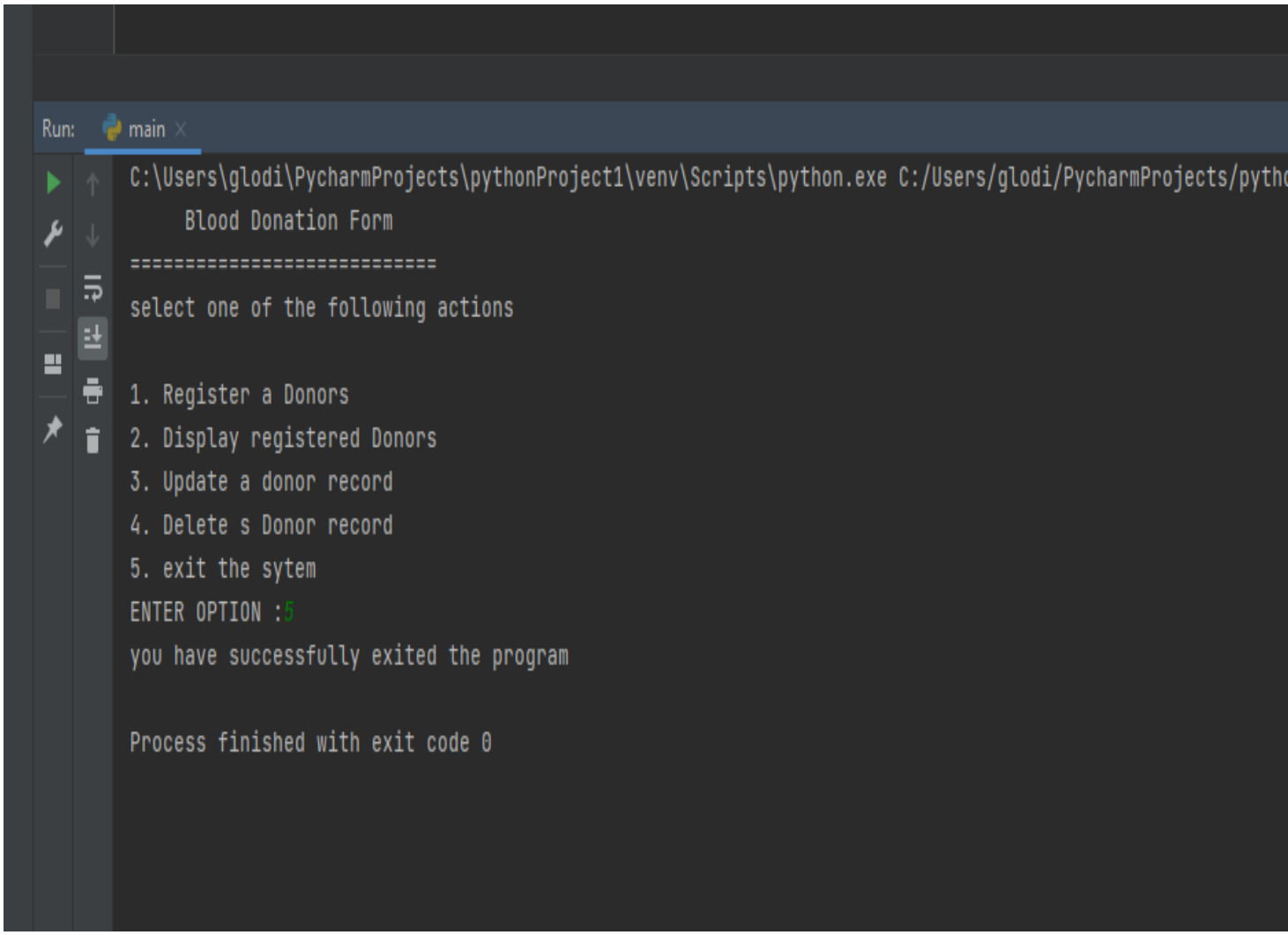

File Edit View Navigate Code Refactor Run Tools VCS Window Help pythonProject1 - main.glodi question 2 ITAOA1
pythonProject1 main.glodi question 2 ITAOA1
main.py main.glodi question 2 ITAOA1 main.glodies project
This is a sample Python script.
import ...
#creating a connection to the database am about to create
store_info = sqlite3.connect('blood donor form')
# creating our table now
storage = store_info.cursor()
# this is the table i created and once created it not needed any more
# that why commented to refer to it when i need to assign input to this database
'''storage.execute("""CREATE TABLE blood_donors(
donors_id ,
donors_first_name char(15),
donors_last_name char(15),
donors_blood_type char(4),
donors_contact_numb int(10)
)""")'''
def registerdonor () :
id_num = (input("Enter your ID number :"))
first_nam = input("Enter Donor first name :")
last_nam = input("Enter Donor last name :")
type_blood = input("Enter Donor blood type :")
contact_numb = int(input("Enter Donor contact number :"))
storage.execute(""" INSERT INTO blood_donors(donors_id, donors_first_name, donors_last_name,
donors_blood_type, donors_contact_numb)VALUES (?,?,?,?,?)""",(id_num, first_nam, last_nam, type_blood, contact_numb))
store_info.commit()
print(" you have succesfully registered the donor ")
def display ():
storage.execute("SELECT * FROM blood_donors")
results = storage.fetchall()
for result in results:
print(result)
print("\n you have succcessfully completed ")
# the update function is to update existing program
def update_record ():
nu =""
Version Control Run TODO Problems Python Packages Python Console Terminal
PEP 8: E265 block comment should start with '# '


File Edit View Navigate Code Refactor Run Tools VCS Window Help
pythonProject1 - main.glodi question 2 ITAOA1
pythonProject1
main.glodi question 2 ITAOA1
main.py
main.glodi question 2 ITAOA1
main.glodies project
first_nam = input("Enter Donor first name :")
last_nam = input("Enter Donor last name :")
type_blood = input("Enter Donor blood type :")
contact_numb = int(input("Enter Donor contact number :"))
storage.execute(""" INSERT INTO blood_donors(donors_id, donors_first_name, donors_last_name,
donors_blood_type, donors_contact_numb)VALUES (?,?,?,?,?)""",(id_num, first_nam, last_nam, type_blood, contact_numb))
store_info.commit()
print(" you have succesfully registered the donor ")
def display ():
storage.execute("SELECT * FROM blood_donors")
results = storage.fetchall()
for result in results:
print(result)
print("\n you have succcessfully completed ")
# the update function is to update existing program
def update_record ():
nu =""
#this query will delete record based on the row number the user input
def dele_te() :
storage.execute("SELECT * FROM blood_donors")
pre_results = storage.fetchall()
for previews in pre_results:
print(previews)
num_id = input("please enter the ID number of the donor's record you with to permently delete")
storage.execute("DELETE from blood_donors WHERE donors_id = ?"),(num_id)
storage.commit()
print(previews)
# this is the exit function which will exit the program when called unpon
def exist ():
print("you have successfully exited the program")
sys.exit()
Version Control
Run
TODO
Problems
Python Packages
Python Console
Terminal
PEP 8: E265 block comment should start with '# '


File Edit View Navigate Code Refactor Run Tools VCS Window Help
pythonProject1 - main.glodi question 2 ITAOA1
pythonProject1
main.glodi question 2 ITAOA1
main.py
main.glodi question 2 ITAOA1
main.glodies project
Project
Structure
Bookmarks
53
54 # this is the exit function which will exit the program when called unpon
55 def exist ():
56 print("you have successfully exited the program")
57 sys.exit()
58
59
60
61 #this menu is designed to call the function based on the user choices
62 def mainmenu ():
63 choice = 0
64 while choice != 1 or 2 or 3 or 4 or 5 : # this will keep the user in the loops untill they choose the correct choice
65 print(" Blood Donation Form")
66 print("============================")
67 print("select one of the following actions\n")
68 print("1. Register a Donors")
69 print("2. Display registered Donors")
70 print("3. Update a donor record")
71 print("4. Delete s Donor record")
72 print("5. exit the sytem")
73 choice = int(input("ENTER OPTION :"))
74 if choice == 1 :
75 print(registerdonor())
76 elif choice == 2 :
77 print(display())
78 elif choice == 3 :
79 print(update_record())
80 elif choice == 4 :
81 print(dele_te())
82 elif choice == 5 :
83 print(exist())
84 else:
85 print("INVALID CHOICE, CHOOSE AGAIN")
86
87
88
89 # START HERE
90 print(mainmenu())
91 #this close my data base connection
92 storage.close()
Version Control
Run
TODO
Problems
Python Packages
Python Console
Terminal
PEP 8: E265 block comment should start with '# '


File Edit View Navigate Code Refactor Run Tools VCS Window Help pythonProject1 - main.glodi question 2 ITAOA1
pythonProject1 main.glodi question 2 ITAOA1
main.py main.glodi question 2 ITAOA1 main.glodies project
# START HERE
print(mainmenu())
#this close my data base connection
storage.close()
Run: main
C:\Users\glodi\PycharmProjects\pythonProject1\venv\Scripts\python.exe C:/Users/glodi/PycharmProjects/pythonProject1/main.py
Blood Donation Form
==========
select one of the following actions
1. Register a Donors
2. Display registered Donors
3. Update a donor record
4. Delete s Donor record
5. exit the sytem
ENTER OPTION :1
Enter your ID number :klxtyid
Enter Donor first name :steve
Enter Donor last name :lububu
Enter Donor blood type :b
Enter Donor contact number :0764355843
you have succesfully registered the donor
None
Blood Donation Form
==========
select one of the following actions
1. Register a Donors
2. Display registered Donors
3. Update a donor record
4. Delete s Donor record
5. exit the sytem
ENTER OPTION :
Version Control Run TODO Problems Python Packages Python Console Terminal
PEP 8: E265 block comment should start with '# '


Run:
main
select one of the following actions
1. Register a Donors
2. Display registered Donors
3. Update a donor record
4. Delete s Donor record
5. exit the sytem
ENTER OPTION :2
(5879948765647, ' GLODI ', 'KALOMBO', 'A', 682546869)
you have succcessfully completed
('D1LXT16D9', 'GLODI', 'KALOMBO', 'A', 682546869)
you have succcessfully completed
('d1lxt16d9', 'glodi', 'kalombo', 'ab', 682546869)
you have succcessfully completed
('59ieujheujbd', 'papy', 'glodi', 'a', 7373553100)
you have succcessfully completed
(123456789, 'elvic', 'kalombo', 'b', 653452103)
you have succcessfully completed
('klxtyid', 'steve', 'lububu', 'b', 764355843)
you have succcessfully completed
None
Blood Donation Form
Structure
Bookmarks
Version Control
Run
TODO
Problems
Python Packages
Python Console
Terminal
PEP 8: E265 block comment should start with '# '


Run:
main
C:\Users\glodi\PycharmProjects\pythonProject1\venv\Scripts\python.exe C:/Users/glodi/PycharmProjects/pytho
Blood Donation Form
==========
select one of the following actions
1. Register a Donors
2. Display registered Donors
3. Update a donor record
4. Delete s Donor record
5. exit the sytem
ENTER OPTION :5
you have successfully exited the program
Process finished with exit code 0