

CREATE APPLICATION FORM TO JOIN ANY
ONE OF THE STUDENT'S ASSOCIATION IN
LPU AND PREPARE REPORT

As a project work for Course

PYTHON PROGRAMMING (INT 213)

Name	: Vikrant gholsse
Registration Number	: 12016400
Name	: Ryan Choudhury
Registration Number	: 12016454
Program	: CSE B.Tech (Hons.)
Semester	: Third
School	: School of Computer Science and Engineering
Name of the University	: Lovely Professional University
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APPLICATION FORM TO JOIN ANY **ONE OF THE STUDENT'S ASSOCIATION IN** **LPU**

ABSTRACT:-

LPU is one of the largest university in the India. And the academic is not only the reason to call LPU one of the best university in the India. Another main reason to call it so is the number of student's associations which are active inside LPU. And also the number of students in each association is probably greater than many colleges in India.

So , we are here to provide the interface by which more number of vertos could join any active student's association inside LPU.

ACKNOWLEDGEMENT:-

I would like to thank my mentor - Prof. Ishan Kumar for his advice and inputs on this project. Many thanks to my friends and seniors as well, who spent countless hours to listen and provide feedbacks .

TEAM MEMBERS:-

1)Vikrant Gholse

Contributions:-

1. Coding(joined)
2. creating tables
3. GUI

2) Ryan Choudhury

Contributions:-

1. Coding(joined)
2. database work
3. report

LIBRARIES:-

1) Tkinter :-

Out of all the GUI methods, tkinter is the most commonly used method. It is a standard Python interface to the Tk GUI toolkit shipped with Python. Python with tkinter is the fastest and easiest way to create the GUI applications. Creating a GUI using tkinter is an easy task

2) Mysql.connector :-

Python needs a mysql driver to access the mysql database. In this tutorial we will use the driver "mysql Connector". We recommend that you use PIP to install "mysql Connector". PIP is most likely already installed in your Python environment..

Working of application with explanation (with screenshots)



The screenshot shows a web browser window with the title "REGISTRATION FORM FOR JOINING STUDENT ASSOCIATION". The page has a yellow background. At the top left, there is a "login" link. Below it, there are two input fields: the first is labeled "UMSID" and the second is labeled "PASSWORD". Below the "PASSWORD" field, there is a "login" button.

If we run our application we will have a login page in front of us as shown above.

As this application is only for LPU students the student must have a ums id and password. And as we cannot have access to LPU original database so we have created our own database named as "lpu_db" in our own localhost with the help of my sql.

```
MySQL 8.0 Command Line Client
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 28
Server version: 8.0.27 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| k20ns |
| lpu_db |
| mysql |
| performance_schema |
| registration_form |
| sys |
| vikrantdb |
+-----+
8 rows in set (0.02 sec)

mysql>
```

In this particular database we have created a tables one of the table is “ums_login” which stores the ums ids and their password.

In this table we have also created some demo ums ids and password.

```
MySQL 8.0 Command Line Client

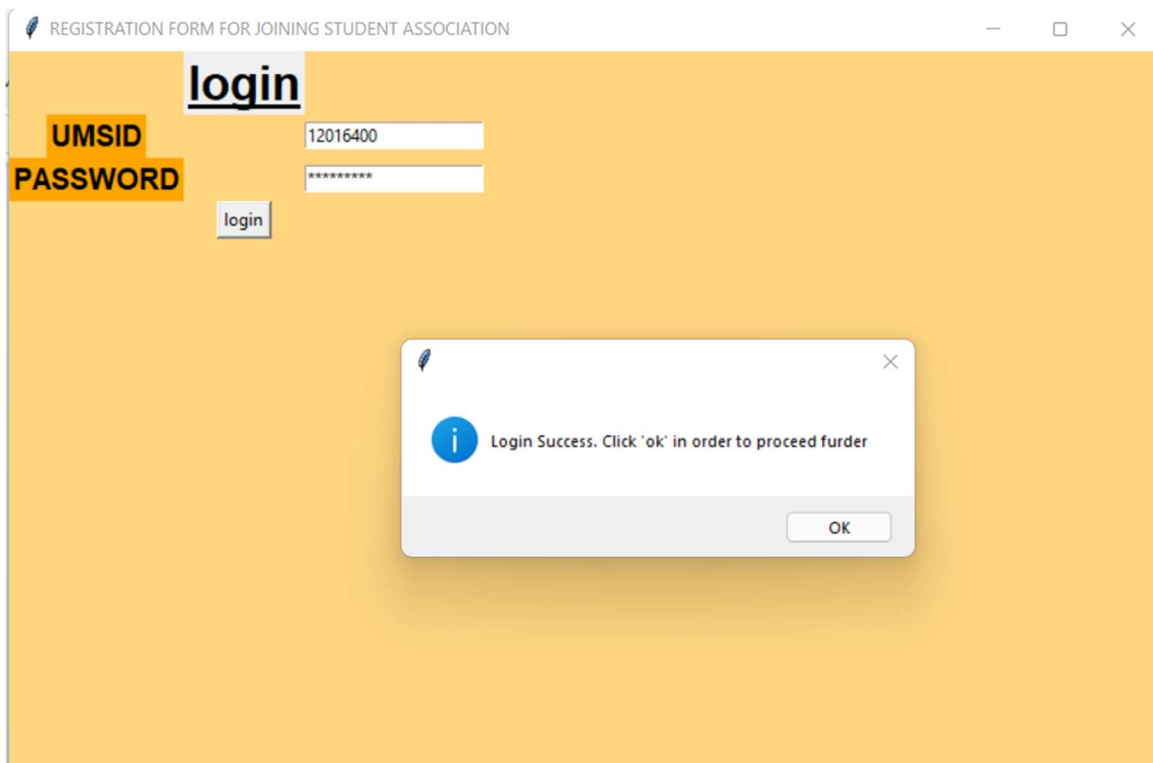
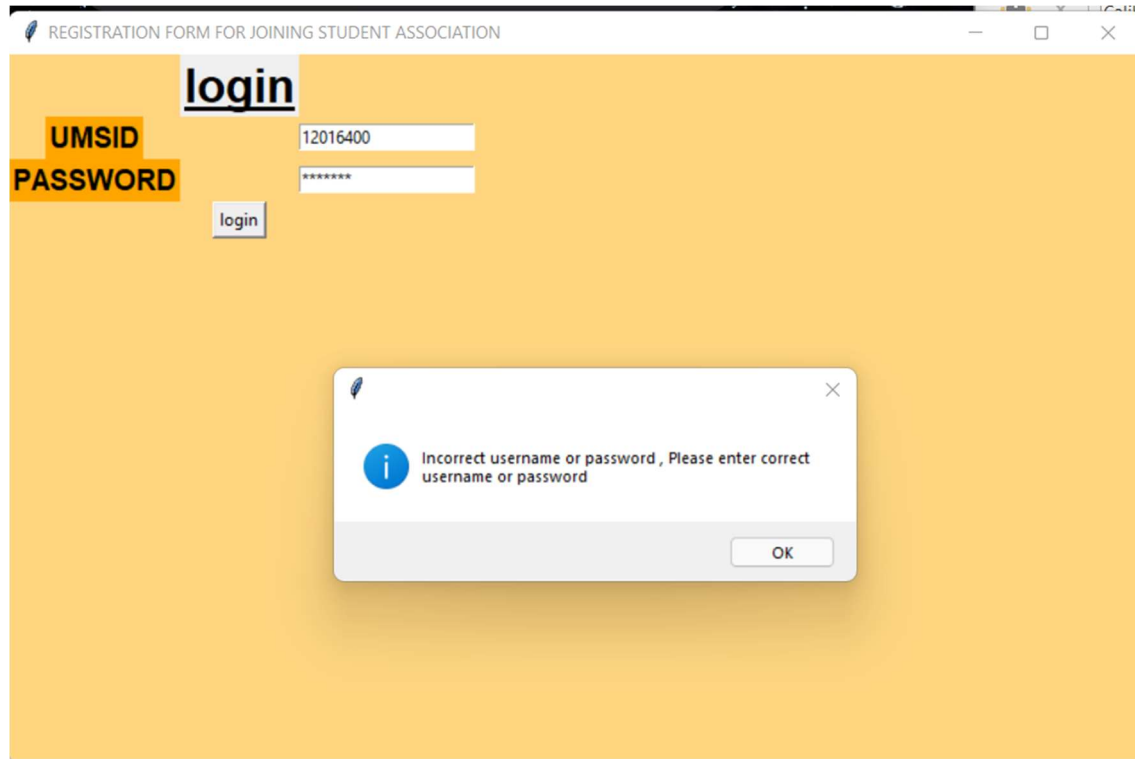
mysql> use lpu_db;
Database changed
mysql> show tables;
+-----+
| Tables_in_lpu_db |
+-----+
| reg_info |
| ums_login |
+-----+
2 rows in set (0.01 sec)

mysql> describe ums_login;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| ums_id | varchar(10) | YES | | NULL | |
| password | varchar(50) | YES | | NULL | |
+-----+
2 rows in set (0.01 sec)

mysql> select * from ums_login;
+-----+
| ums_id | password |
+-----+
| 12016400 | 123456789 |
| 12016401 | 987654321 |
+-----+
2 rows in set (0.00 sec)

mysql>
```

Until unless we enter correct id and password it will throw error.first image shows output with wrong password and second one with correct password



As soon as we enter correct user name and password we will be taken to the registration page

REGISTRATION FORM FOR JOINING STUDENT ASSOCIATION

Registration Form

FIRST NAME

LAST NAME

EMAIL

ADDRESS

NAME FO THE ASSOCIATION

WHY DO YOU WANT TO JOIN?

GENDER ☐ male ☐ female ☐ others

PHONE NUMBER

first click on update button followed by submit button

And the inputs which the user will enter here will be again stored into our localhost database but this time table will be different.

The name of the table which will store the input values is "reg_info"

```
MySQL 8.0 Command Line Client

mysql> select * from ums_login;
+-----+-----+
| umsid | password |
+-----+-----+
| 12016400 | 123456789 |
| 12016401 | 987654321 |
+-----+-----+
2 rows in set (0.00 sec)

mysql> describe reg_info;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| f_name | varchar(50) | YES | | NULL | |
| l_name | varchar(50) | YES | | NULL | |
| email | varchar(50) | YES | | NULL | |
| address | varchar(50) | YES | | NULL | |
| p_number | varchar(50) | YES | | NULL | |
| accociation_name | varchar(255) | YES | | NULL | |
| reason_to_join | varchar(255) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

mysql>
```

And to update our details in the table we need to fill each and every details asked in REGISTRATION FORM

REGISTRATION FORM FOR JOINING STUDENT ASSOCIATION

Registration Form

FIRST NAME

LAST NAME

EMAIL

ADDRESS

NAME FO THE ASSOCIATION

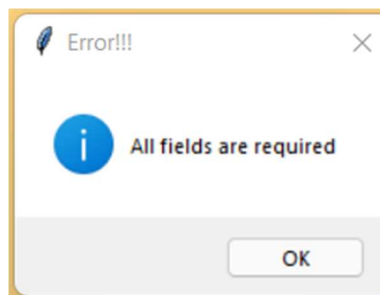
WHY DO YOU WANT TO JOIN?

GENDER ☐ male ☐ female ☐ others

PHONE NUMBER

first click on update button followed by submit button

If we click on update button without giving input even in a single input box we will get error



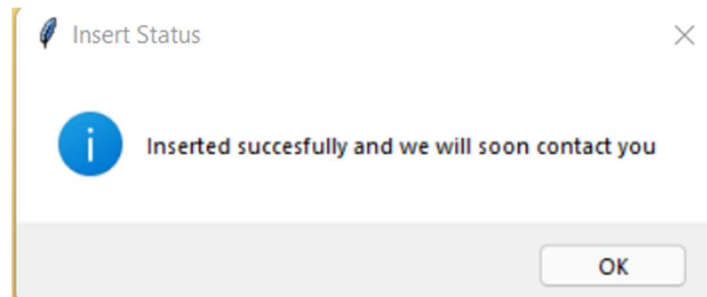
But if we fill complete details and clock on submit button we will not get any kind of error

REGISTRATION FORM FOR JOINING STUDENT ASSOCIATION

Registration Form

FIRST NAME	PARTH
LAST NAME	GHOLSE
EMAIL	PARTH@GMAIL.COM
ADDRESS	NAGPUR
NAME FO THE ASSOCIATION	XYZ
WHY DO YOU WANT TO JOIN?	XYZ
GENDER	<input type="radio"/> male <input checked="" type="radio"/> female <input type="radio"/> others
PHONE NUMBER	1234567896

First click on update button followed by submit button



And data will be inserted in the table inside our database.

```
mysql> select * from reg_info;
```

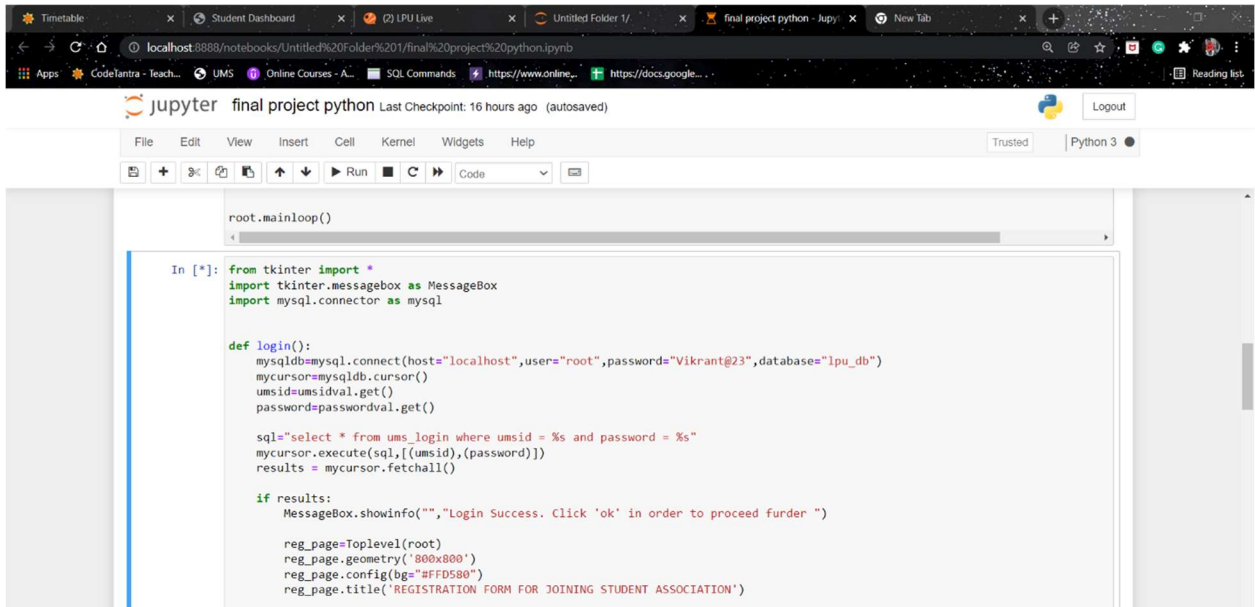
f_name	l_name	email	address	p_number	accociation_name	reason_to_join
None	None	None	None	None	NULL	NULL
None	None	None	None	None	NULL	NULL
None	None	None	None	None	NULL	NULL
None	None	None	None	None	NULL	NULL
None	None	None	None	None	NULL	NULL
None	None	None	None	None	NULL	NULL
None	None	None	None	None	NULL	NULL
None	None	None	None	None	NULL	NULL
None	None	None	None	None	NULL	NULL
vikrant	gholse	vikrant@gmail.com	nagpur	1234567896	NULL	NULL
vikrant	gholse	vikrantgholse2@gmail.com	railway sttion road nagpur	7559190423	NULL	NULL
raj	sharma	raj@gmail.com	delhi	7896541235	NULL	NULL
mohit	mishra	mohit@gmail.com	pune	9856231147	NULL	NULL
virat	kohli	virat12@gmail.com	mumbai	1563572486	NULL	NULL
rohit	sharma	rohit@gmail.com	pune	7894561230	AIIESEC	to improve social skills
PARTH	GHOLSE	PARTH@GMAIL.COM	NAGPUR	1234567896	XYZ	XYZ

15 rows in set (0.00 sec)

```
mysql>
```

Errors

CODE



The screenshot shows a Jupyter Notebook titled "final project python" with a Python 3 kernel. The code defines a Tkinter window for a login system. It imports tkinter, messagebox, and mysql.connector. A login function is defined that connects to a MySQL database, executes a query to verify user credentials, and displays a success message. The main loop of the Tkinter window is also shown.

```
root.mainloop()

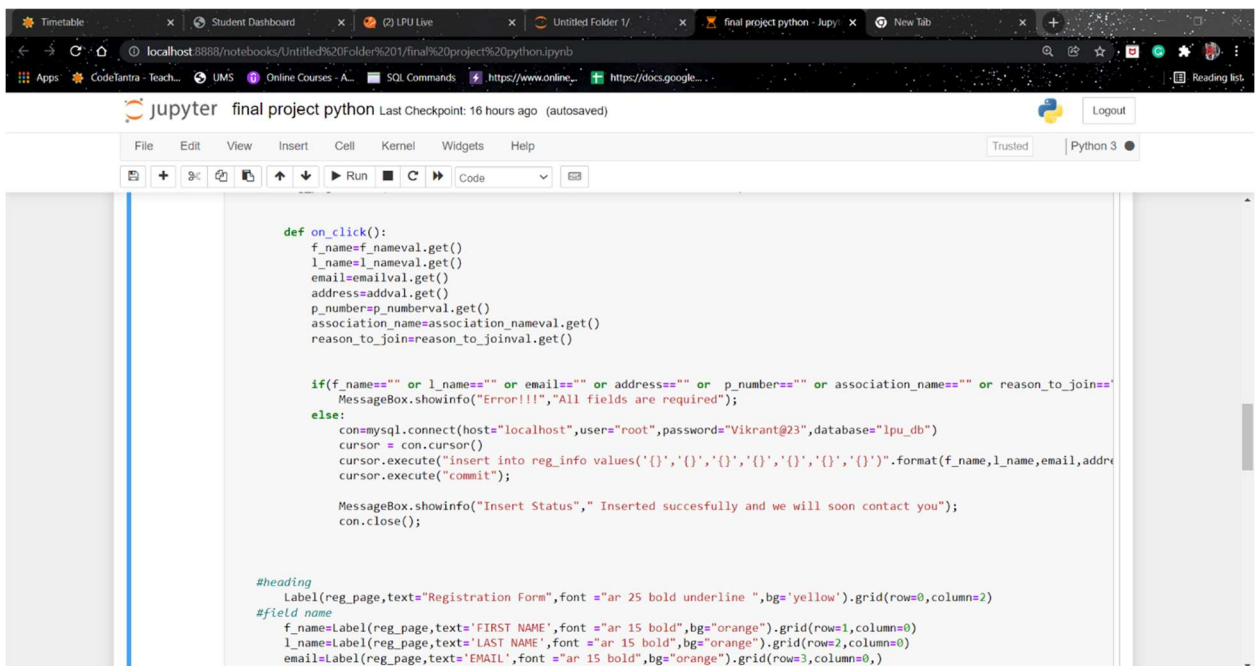
In [*]: from tkinter import *
import tkinter.messagebox as messagebox
import mysql.connector as mysql

def login():
    mysqldb=mysql.connect(host="localhost",user="root",password="Vikrant@23",database="lpu_db")
    mycursor=mysqldb.cursor()
    umsId=umsIdval.get()
    password=passwordval.get()

    sql="select * from ums_login where umsId = %s and password = %s"
    mycursor.execute(sql,[ (umsId),(password)])
    results = mycursor.fetchall()

    if results:
        MessageBox.showInfo("", "Login Success. Click 'ok' in order to proceed furder ")

    reg_page=Toplevel(root)
    reg_page.geometry('800x800')
    reg_page.config(bg="#FFD580")
    reg_page.title('REGISTRATION FORM FOR JOINING STUDENT ASSOCIATION')
```



The screenshot shows the same Jupyter Notebook with additional code for a registration function. This function retrieves data from Tkinter entry fields, validates if all fields are filled, and if so, connects to the MySQL database to insert the new user's information. It also includes comments for adding labels and fields to the registration form.

```
def on_click():
    f_name=f_nameval.get()
    l_name=l_nameval.get()
    email=emailval.get()
    address=addval.get()
    p_number=p_numberval.get()
    association_name=association_nameval.get()
    reason_to_join=reason_to_joinval.get()

    if(f_name=="" or l_name=="" or email=="" or address=="" or p_number=="" or association_name=="" or reason_to_join==""):
        MessageBox.showInfo("Error!!!", "All fields are required");
    else:
        con=mysql.connect(host="localhost",user="root",password="Vikrant@23",database="lpu_db")
        cursor = con.cursor()
        cursor.execute("insert into reg_info values('{}','{}','{}','{}','{}','{}','{}')".format(f_name,l_name,email,address,p_number,association_name,reason_to_join))
        cursor.execute("commit");

        MessageBox.showInfo("Insert Status," Inserted succesfully and we will soon contact you");
        con.close();

#heading
Label(reg_page,text="Registration Form",font="ar 25 bold underline ",bg='yellow').grid(row=0,column=2)
#field name
f_name=Label(reg_page,text='FIRST NAME',font="ar 15 bold",bg="orange").grid(row=1,column=0)
l_name=Label(reg_page,text='LAST NAME',font="ar 15 bold",bg="orange").grid(row=2,column=0)
email=Label(reg_page,text='EMAIL',font="ar 15 bold",bg="orange").grid(row=3,column=0,)
```

```
Timetable x Student Dashboard x (2) LPU Live x Untitled Folder 1/ x final project python - Jupy x New Tab
localhost:8888/notebooks/Untitled%20Folder%201/final%20project%20python.ipynb
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jupyter final project python Last Checkpoint: 16 hours ago (autosaved) Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

+ + + + + Run + + + + + Code

l_name=Label(reg_page,text='LAST NAME',font = "ar 15 bold",bg="orange").grid(row=2,column=0)
email=Label(reg_page,text='EMAIL',font = "ar 15 bold",bg="orange").grid(row=3,column=0)
add=Label(reg_page,text='ADDRESS',font = "ar 15 bold",bg="orange").grid(row=4,column=0)
association_name=Label(reg_page,text='NAME FO THE ASSOCIATION',font = "ar 12 bold",bg="orange").grid(row=5,column=0)
reason_to_join=Label(reg_page,text='WHY DO YOU WANT TO JOIN?',font = "ar 12 bold",bg="orange").grid(row=6,column=0)
gender=Label(reg_page,text='GENDER',font = "ar 15 bold",bg="orange").grid(row=7,column=0)
p_number=Label(reg_page,text='PHONE NUMBER',font = "ar 15 bold",bg="orange").grid(row=9,column=0)
war=Label(reg_page,text='first click on update button followed by submit button',font = "ar 10 bold underline",bg="red").

#variable for storing data
f_nameval = StringVar()
l_nameval = StringVar()
emailval = StringVar()
addval = StringVar()
association_nameval = StringVar()
reason_to_joinval = StringVar()
genderval = StringVar()
p_numberval = StringVar()

#variable to store value for gender
gen=IntVar()

#creating entry field
f_nameentry = Entry(reg_page , textvariable=f_nameval).grid(row=1,column=3)
l_nameentry = Entry(reg_page , textvariable= l_nameval).grid(row=2,column=3)
emailentry = Entry(reg_page , textvariable=emailval).grid(row=3,column=3)
addentry = Entry(reg_page , textvariable=addval).grid(row=4,column=3)
association_nameentry = Entry(reg_page , textvariable=association_nameval).grid(row=5,column=3)
reason_to_joinentry = Entry(reg_page , textvariable=reason_to_joinval).grid(row=6,column=3)

#radio button for gender
gendermale = Radiobutton(reg_page,text='male',value=1,variable=gen).grid(row=7,column=3)
genderfemale= Radiobutton(reg_page,text='female',value=2,variable=gen).grid(row=7,column=4)
genderother= Radiobutton(reg_page,text='others',value=3,variable=gen).grid(row=7,column=5)
```

```
Timetable x Student Dashboard x (2) LPU Live x Untitled Folder 1/ x final project python - Jupy x New Tab
localhost:8888/notebooks/Untitled%20Folder%201/final%20project%20python.ipynb
Apps CodeTantro - Teach... UMS Online Courses - A... SQL Commands https://www.online... https://docs.google... Reading list

jupyter final project python Last Checkpoint: 16 hours ago (autosaved) Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

+ + + + + Run + + + + + Code

genderfemale= Radiobutton(reg_page,text='female',value=2,variable=gen).grid(row=7,column=4)
genderother= Radiobutton(reg_page,text='others',value=3,variable=gen).grid(row=7,column=5)

p_numberentry = Entry(reg_page , textvariable= p_numberval).grid(row=9,column=3)
Button(reg_page,text="submit",command=lambda:reg_page.destroy()).grid(row=11,column=2)
Button(reg_page,text="update",command=on_click).grid(row=11,column=3)

return True

else:
    MessageBox.showinfo("", "Incorrect username or password , Please enter correct username or password ")
    return False

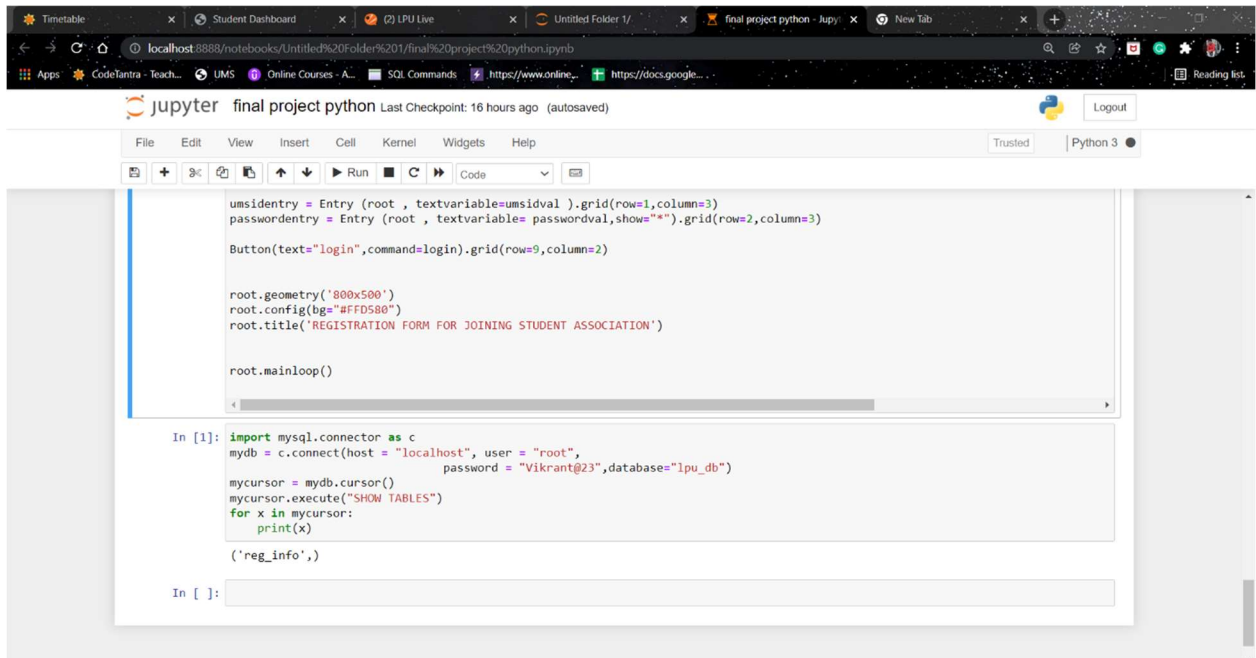
root =Tk()

Label(root,text="login",font = "ar 25 bold underline ").grid(row=0,column=2)

umsid=Label(root,text='UMSID',font = "ar 15 bold",bg="orange").grid(row=1,column=0)
password=Label(root,text='PASSWORD',font = "ar 15 bold",bg="orange").grid(row=2,column=0)

umsidval = StringVar()
passwordval = StringVar()

umsidentry = Entry (root , textvariable=umsidval ).grid(row=1,column=3)
passwordentry = Entry (root , textvariable= passwordval,show="*").grid(row=2,column=3)
Button(text="login",command=login).grid(row=9,column=2)
```



Conclusions:-

It is our team's hope that this document will be of huge help with understanding of our little project as we have used a different approach which has proved beneficial for us and easy for us to understand the vast ocean that is mysql databases and python libraries .

REFERENCES:-

To conduct this project the following tools have been used :

- Jupyter notebook and Visual studio 2019
- Mysql(library)
- Tkinter(library)

