

CERTIFICATE

**V.K KRISHNA MENON COLLEGE OF COMMERCE AND
ECONOMICS**

&

**SHARAD SHANKAR DIGHE COLLEGE OF SCIENCE
BHANDUP EAST, MUMBAI – 400042**

This is to certify that Mr/Miss RANA SUJEET KUMAR MAHESH

Seat No 38 has successfully completed Project Implementation

Practicals of Semester-IV for partial fulfilment of **B.Sc. Degree** course in **Computer
Science** of University of Mumbai in academic year **2021-2022** under the guidance of

Rajesh Kumar

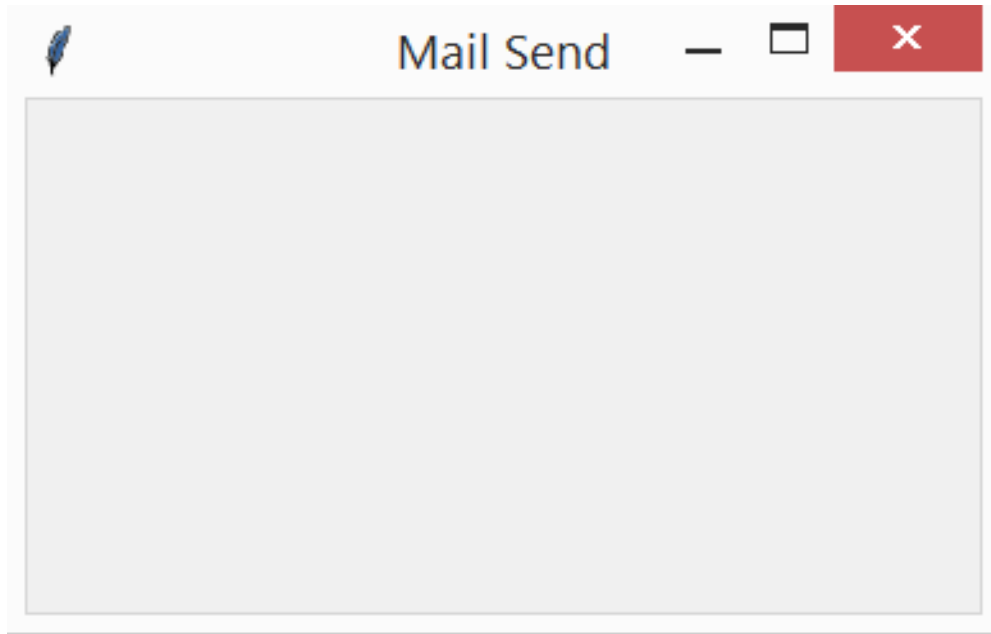
DATE:

HEAD OF THE DEPARTMENT

Teacher-in-charge

EXAMINER

Python GUI Mail Sender



Overview

This Python Gui main function is Send a Mail to the other person.And save message in database in encrypted form.This is gui use in certain security base project for sending mail and save the message in encrypted form. So this software is very useful for them at a very low cost.

Objective

This software is use for developers whose are working on message sending to the other person and save their data in encrypted form.

Code Implementation

This python gui programme is send the message to the other person and save the message in encrypted form .So ,I have to make it .py file and first import the above module and Then create four different-different function first for encryption second for incrypted message is saved in database,third for decryption and last for Mail Sending and create GUI labels ,Entrys and button For enter message,sender mail id and dob(as shift key for encrypted and decrypted message).

import the above module

```
from tkinter import*  
import mysql.connector  
import smtplib
```

Function for Encryption

```
def encrypt():
```

```
    try:
```

```
        string=msg_enter.get()
```

```
        Label(root,text=string).grid(row=10,column=1)
```

```
        Label(root,text="your message ").grid(row=10,column=0)
```

```
        shift=int(dob_enter.get())
```

```
        cipher = ""
```

```
        for char in string:
```

```
            if char == ' ':
```

```
                cipher = cipher + char
```

```
            elif char.isupper():
```

```
                cipher = cipher + chr((ord(char) + shift - 65) % 26 + 65)
```

```
            else:
```

```
        cipher = cipher + chr((ord(char) + shift - 97) % 26 + 97)
    return cipher
except:
    Label(root,text="Error occured in program").grid(row=8,column=1)
```

Encrypted Message saved in database

```
def database():
```

```
    link = mysql.connector.connect(host="localhost",user="root",password="root",database="college")
    db = link.cursor()

    message = encrypt()
    dob=dob_enter.get()
    stmt2 = "insert into college(message,dob) VALUES(%s,%s)"
    values = (message,dob)
    db.execute(stmt2, values)
    link.commit()
    Label(root,text="Encrypted Message saved in database").grid(row=9,column=1)
    ms = encrypt()
    Label(root,text="encrypted message").grid(row=12,column=0)
    Label(root,text=ms).grid(row=12,column=1)

    ms = decrypt()
    Label(root,text="decrypted message").grid(row=11,column=0)
    Label(root,text=ms).grid(row=11,column=1)
```

Function for Decryption

```
def decrypt():
```

```
    try:
        string=encrypt()
        shift=int(dob_enter.get())
        cipher = ""
        for char in string:
            if char == ' ':
                cipher = cipher + char
            elif char.isupper():
                cipher = cipher + chr((ord(char) - shift - 65) % 26 + 65)
```

```
    else:
        cipher = cipher + chr((ord(char) - shift - 97) % 26 + 97)
    return cipher
except:
    Label(root,text="Error occured in program").grid(row=8,column=1)
```

Function for Mail Sending

```
def SendMail():
```

```
    message = msg_enter.get()
    dob=dob_enter.get()
    smtp_server = "smtp.gmail.com"
    port = 587
    r_mail_id = mailid_enter.get()
    email = "Enter sender Mail id"
    password ="Enter password"
    # Try to log in to server and send email
    if message != "" and r_mail_id != "" and dob != "":
        try:
            server = smtplib.SMTP(smtp_server,port)
            server.starttls()
            server.login(email, password)
            server.sendmail(email, r_mail_id, message)
            Label(root,text="successfull mail send").grid(row=8,column=1)
        except Exception as e:
            Label(root,text="mail not send successfully").grid(row=8,column=1)
        finally:
            server.quit()
            database()
    else:
        Label(root,text="Type above details").grid(row=8,column=1)
```

Create Gui

```
root=Tk()
```

```
root.title("Mail Send")
```

```
Label(root, text="Welcome for send mail ").grid(row=0,column=0)
```

```
Label(root, text="Type your message").grid(row=1,column=0)
```

```
msg_enter=Entry(root)
msg_enter.grid(row=1,column=1)

Label(root, text="Enter receiver Mail Id").grid(row=2,column=0)
mailid_enter=Entry(root)
mailid_enter.grid(row=2,column=1)

Label(root, text="Enter Enter your Date of Birth Year").grid(row=3,column=0)
dob_enter=Entry(root)
dob_enter.grid(row=3,column=1)

send_mail=Button(root,text="Send Message",command=SendMail)
send_mail.grid(row=4,column=1)

root.mainloop()
```

Full Code

```
from tkinter import*
import mysql.connector
import smtplib

def encrypt():
    try:
        string=msg_enter.get()
        Label(root,text=string).grid(row=10,column=1)
        Label(root,text="your message ").grid(row=10,column=0)

        shift=int(dob_enter.get())
        cipher = ""
        for char in string:
            if char == ' ':
                cipher = cipher + char
            elif char.isupper():
                cipher = cipher + chr((ord(char) + shift - 65) % 26 + 65)
            else:
                cipher = cipher + chr((ord(char) + shift - 97) % 26 + 97)
        return cipher
    except:
        Label(root,text="Error occured in program").grid(row=8,column=1)

def decrypt():
```

```
try:
    string=encrypt()
    shift=int(dob_enter.get())
    cipher = ""
    for char in string:
        if char == ' ':
            cipher = cipher + char
        elif char.isupper():
            cipher = cipher + chr((ord(char) - shift - 65) % 26 + 65)
        else:
            cipher = cipher + chr((ord(char) - shift - 97) % 26 + 97)
    return cipher
except:
    Label(root,text="Error occured in program").grid(row=8,column=1)
```

def SendMail():

```
message = msg_enter.get()
dob=dob_enter.get()
smtp_server = "smtp.gmail.com"
port = 587
r_mail_id = mailid_enter.get()
email = " Enter sender Mail id "
password ="Enter password"
if message != "" and r_mail_id != "" and dob != "":
    try:
        server = smtplib.SMTP(smtp_server,port)
        server.starttls()
        server.login(email, password)
        server.sendmail(email, r_mail_id, message)
        Label(root,text="successfull mail send").grid(row=8,column=1)
    except Exception as e:
        Label(root,text="mail not send successfully").grid(row=8,column=1)
    finally:
        server.quit()
    database()
else:
    Label(root,text="Type above details").grid(row=8,column=1)
```

def database():

```
link = mysql.connector.connect(host="localhost",user="root",password="root",database="college")
db = link.cursor()

message = encrypt()
dob=dob_enter.get()
```

```
stmt2 = "insert into college(message,dob) VALUES(%s,%s)"
values = (message,dob)
db.execute(stmt2, values)
link.commit()
Label(root,text="Encrypted Message saved in database").grid(row=9,column=1)
ms = encrypt()
Label(root,text="encrypted message").grid(row=12,column=0)
Label(root,text=ms).grid(row=12,column=1)

ms = decrypt()
Label(root,text="decrypted message").grid(row=11,column=0)
Label(root,text=ms).grid(row=11,column=1)

root=Tk()

root.title("Mail Send")

Label(root, text="Welcome for send mail ", bd=1, padx=20, pady=20,
width=70).grid(row=0,column=0)
Label(root, text="Type your message").grid(row=1,column=0)
msg_enter=Entry(root)
msg_enter.grid(row=1,column=1)

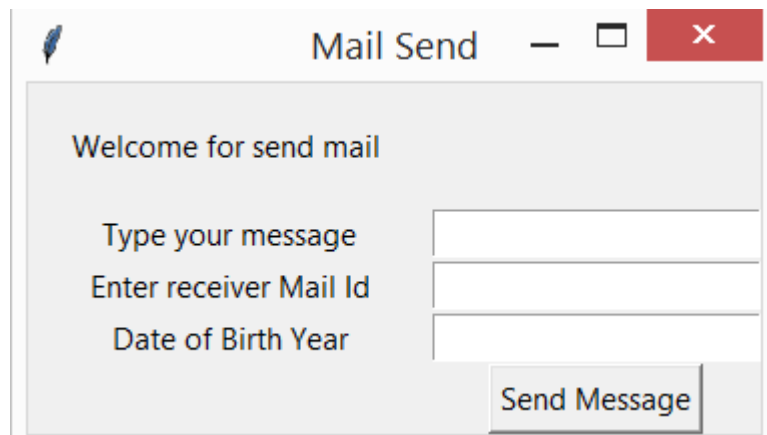
Label(root, text="Enter receiver Mail Id).grid(row=2,column=0)
mailid_enter=Entry(root)
mailid_enter.grid(row=2,column=1)

Label(root, text="Enter Enter your Date of Birth Year).grid(row=3,column=0)
dob_enter=Entry(root)
dob_enter.grid(row=3,column=1)

send_mail=Button(root,text="Send Message",command=SendMail)
send_mail.grid(row=4,column=1)

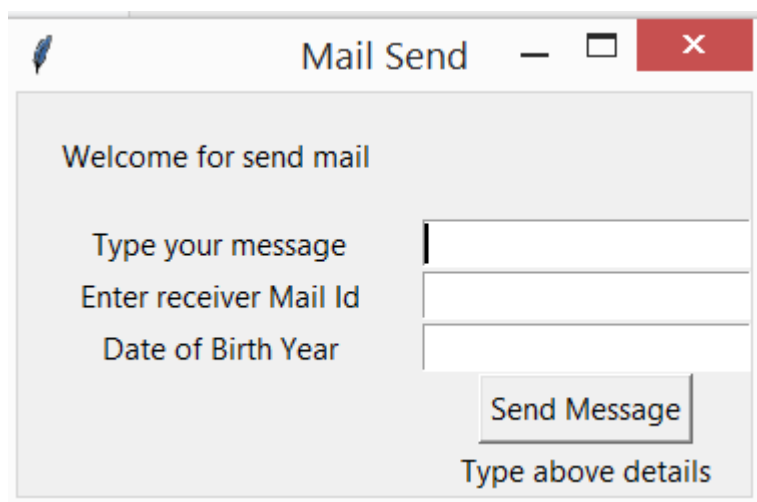
root.mainloop
```

Screen Shots




A screenshot of a Java Swing window titled "Mail Send". The window has a standard title bar with a feather icon, a minimize button, a maximize button, and a red close button. The main content area has a light gray background. At the top, it says "Welcome for send mail". Below this, there are three text input fields. The first is labeled "Type your message", the second "Enter receiver Mail Id", and the third "Date of Birth Year". To the right of the first two fields is a small white rectangular box. At the bottom right of the input area is a button labeled "Send Message".

If not enter any data then message show



A screenshot of the same "Mail Send" window. The input fields are empty. Below the "Send Message" button, the text "Type above details" is displayed in a smaller font, indicating an error or a prompt to enter data.

Successfull Send Message

 Mail Send — □ ✕

Welcome for send mail

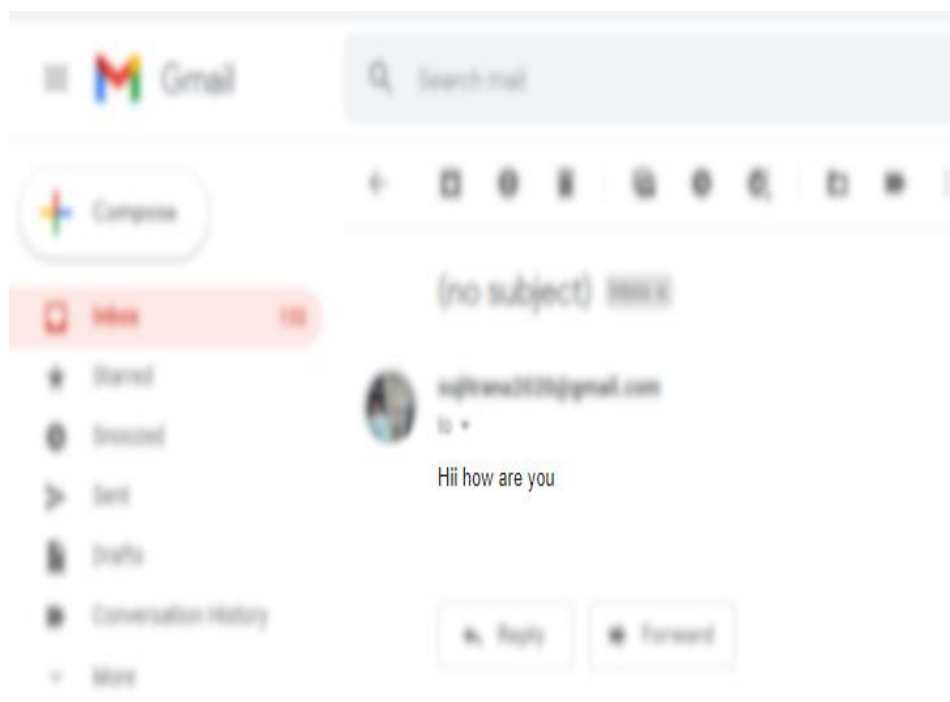
Type your message
Enter receiver Mail Id
Date of Birth Year

successfull mail send

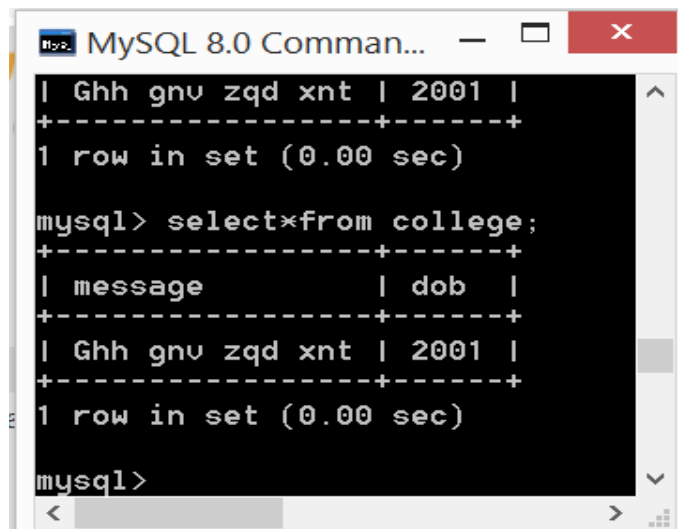
Encrypted Message saved in database

your message
decrypted message
encrypted message

Hii how are you
Hii how are you
Ghh gnv zqd xnt



Encrypted message save



The screenshot shows a MySQL 8.0 Command Prompt window with a black background and white text. The window title is 'MySQL 8.0 Comman...'. The command history shows two queries: an insert statement and a select statement. The insert statement successfully added a row to the 'college' table. The select statement retrieved the row, displaying its contents in a table format.

```
mysql> insert into college values('Ghh gnu zqd xnt',2001);
1 row in set (0.00 sec)

mysql> select * from college;
+-----+-----+
| message          | dob   |
+-----+-----+
| Ghh gnu zqd xnt | 2001  |
+-----+-----+
1 row in set (0.00 sec)

mysql>
```

Thank You