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

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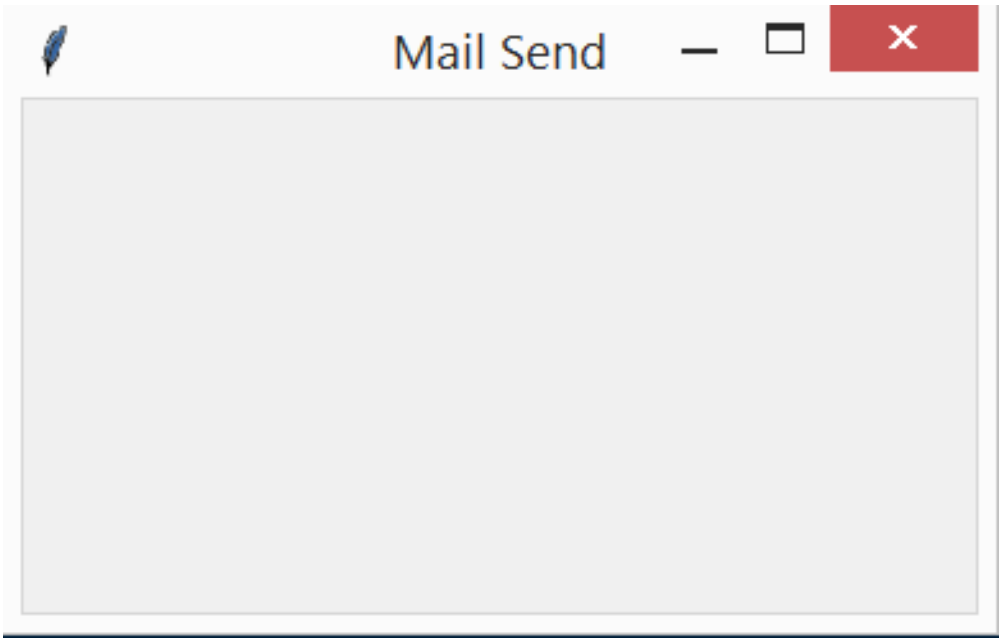
DATE: **HEAD OF THE DEPARTMENT**

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 sendind mail and save the message in encrypted form. So this software
is very useful forthem 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()
```

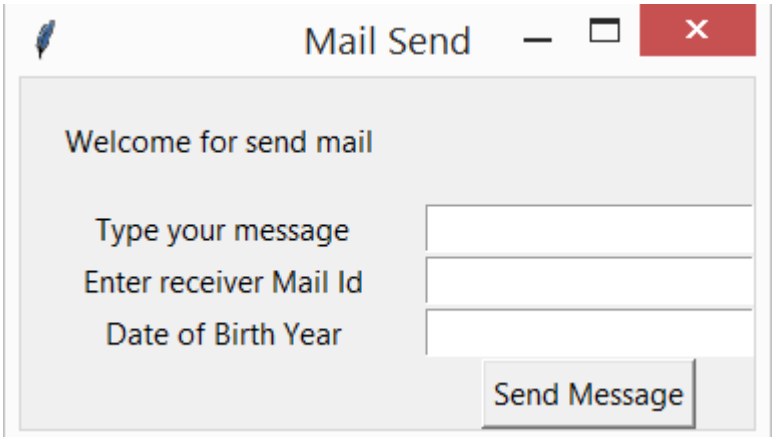
Full Code

```
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():
```

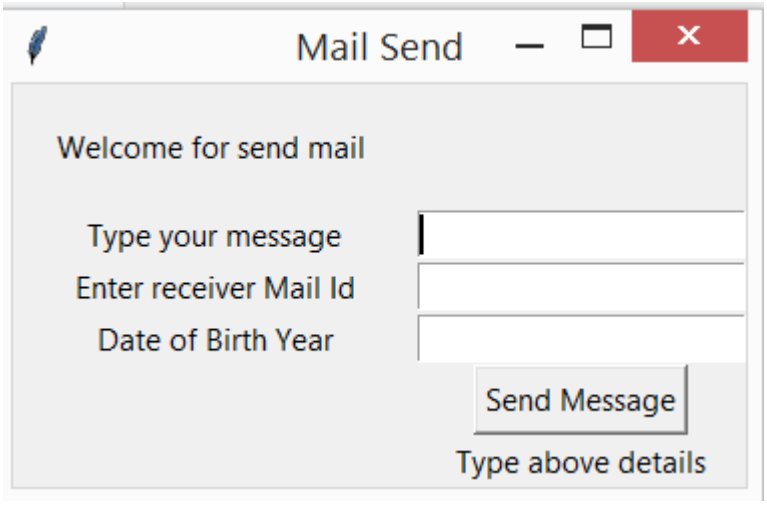
```
    try:
        string=encrypt()
        shift=int(dob_enter.get())
        cipher = ''
        for char in string:
            if char == ' ':
                cipher = cipher + char
            elif  char.isupper():
                cipher = cipher + chr((ord(char) - shift - 65) % 26 + 65)
    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

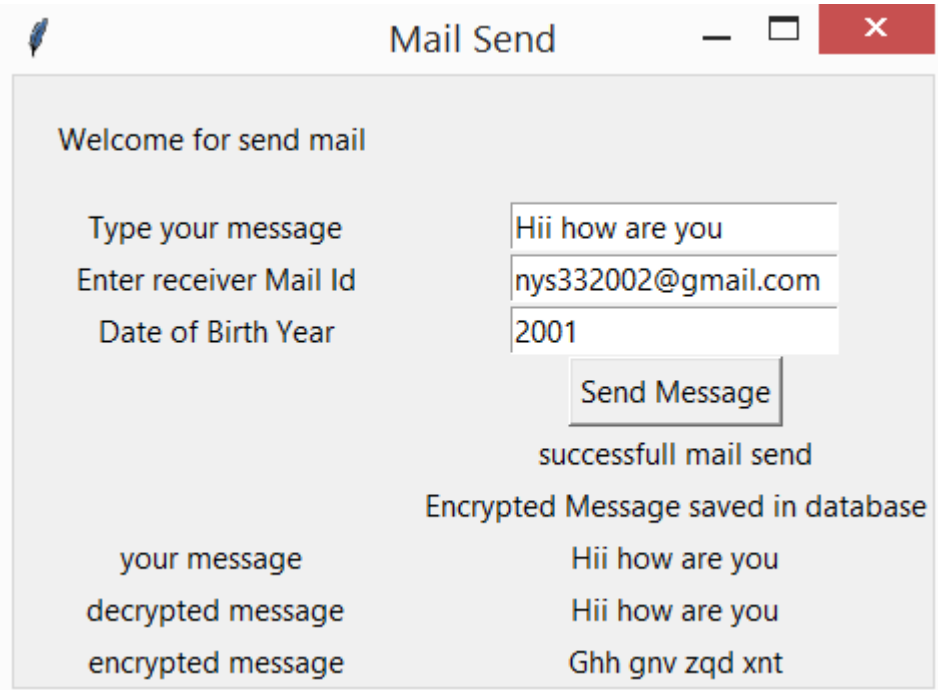
Screen Shots

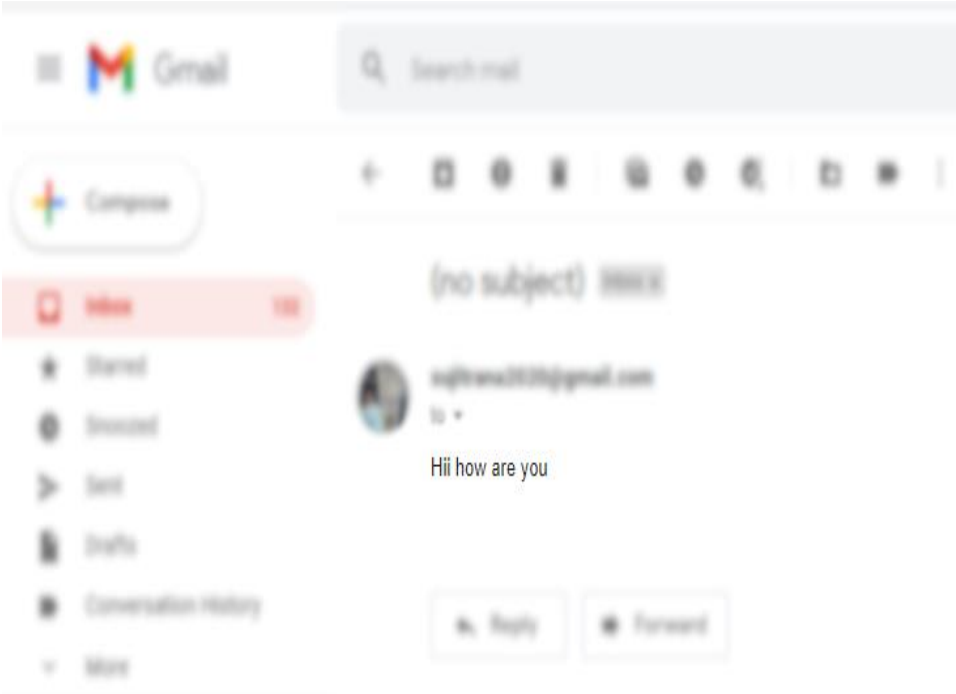


If not enter any data then message show

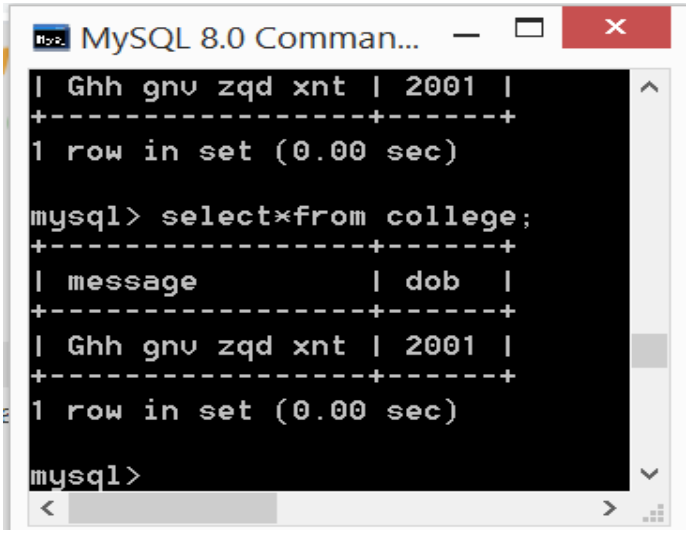


Successfull Send Message


Mail Send
Welcome for send mail
Type your message
Hii how are you
Enter receiver Mail Id
nys332002@gmail.com
Date of Birth Year
2001
Send Message
successfull mail send
Encrypted Message saved in database
your message
Hii how are you
decrypted message
Hii how are you
encrypted message
Ghh gnv zqd xnt


Gmail
Hii how are you

Encrypted message save



Thank You