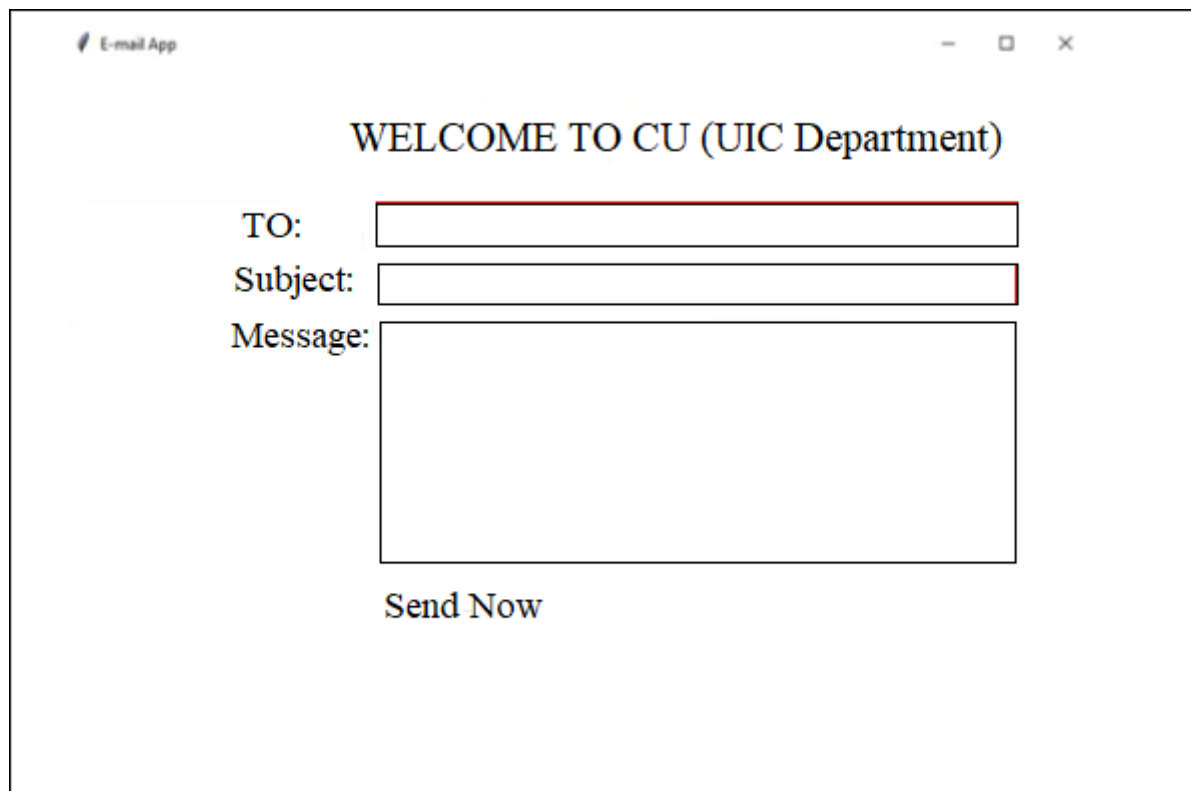


**Practical Assignment 2****Subject-Advanced Embedded Programming****Subject code-CAT- 851**

**Question 1. Design the Tkinter GUI interface for sending the mail using Gmail. All students have to configure this problem with their own Gmail accounts and have to attach snapshots of received mail in their particular Gmail account by using this interface.**



The screenshot shows a Tkinter window titled "E-mail App". Inside the window, the text "WELCOME TO CU (UIC Department)" is displayed at the top. Below this, there are three input fields: "TO:" followed by a single-line text box, "Subject:" followed by a single-line text box, and "Message:" followed by a multi-line text area. At the bottom of the window, there is a button labeled "Send Now".

```
from tkinter import *  
  
from tkinter import ttk  
  
from ttkthemes import themed_tk  
  
import tkinter as tk  
  
import smtplib  
  
from email.message import EmailMessage  
  
  
mainwin = Tk()  
  
mainwin.title("WELCOME TO CU (UIC Department)")
```

```
mainwin.configure(bg='white')
```

```
v_address = tk.StringVar(mainwin)
```

```
v_subject = tk.StringVar(mainwin)
```

```
def email_content():
```

```
    message = txt_message.get("1.0", "end-1c")
```

```
    address = v_address.get()
```

```
    subject = v_subject.get()
```

```
    email = EmailMessage()
```

```
    email['from'] = 'seema sharma'
```

```
    email['to'] = address
```

```
    email['subject'] = subject
```

```
    email.set_content = message
```

```
    send_mail(email)
```

```
def send_mail(email):
```

```
    with smtplib.SMTP(host='smtp.gmail.com', port=587) as smtp:
```

```
        smtp.ehlo()
```

```
        smtp.starttls()
```

```
        smtp.login('uic.18mca8135@gmail.com', 'seema_555')
```

```
        smtp.send_message(email)
```

```
# starting of heading
```

```
heading = ttk.Label(mainwin, text="E-Mail App", font='arial 18 bold')
```

```
heading.config(foreground='black', background='white')
```

```
heading.place(x=320, y=30)
```

```
ttk.Separator(mainwin).place(y=101, relwidth=1)
```

```
# start of label and input types widgets
```

```
lbl_name = ttk.Label(mainwin, text="To: ", font='arial 14 bold').place(x=190, y=118)
```

```
txt_address = ttk.Entry(mainwin, textvariable=v_address, width=80).place(x=250, y=120)
```

```
lbl_subject = ttk.Label(mainwin, text="Subject: ", font='arial 14 bold').place(x=140, y=150)
```

```
txt_subject = ttk.Entry(mainwin, textvariable=v_subject, width=80).place(x=250, y=150)
```

```
lbl_message = ttk.Label(mainwin, text="Message: ", font='arial 14 bold').place(x=140, y=200)
```

```
txt_message = Text(mainwin, width=60, height=10)
```

```
heading.config(foreground='black', background='white')
```

```
heading.place(x=320, y=30)
```

```
txt_message.insert("end", "")
```


```
txt_message.place(x=250, y=200)
```

```
send_btn = ttk.Button(mainwin, text=' Send Now ', command=email_content ).place(x=250, y=400)
```

```
mainwin.geometry('800x800')
```

```
mainwin.mainloop()
```

**OUTPUT:**

 E-mail App-□✕

WELCOME TO CU (UIC Department)

TO:

uic.18mca8135@gmail.com

Subject:

Practical IOT

Message:

user name  
pswd  
18mca8135  
seema sharma

Send Now

**Database:**