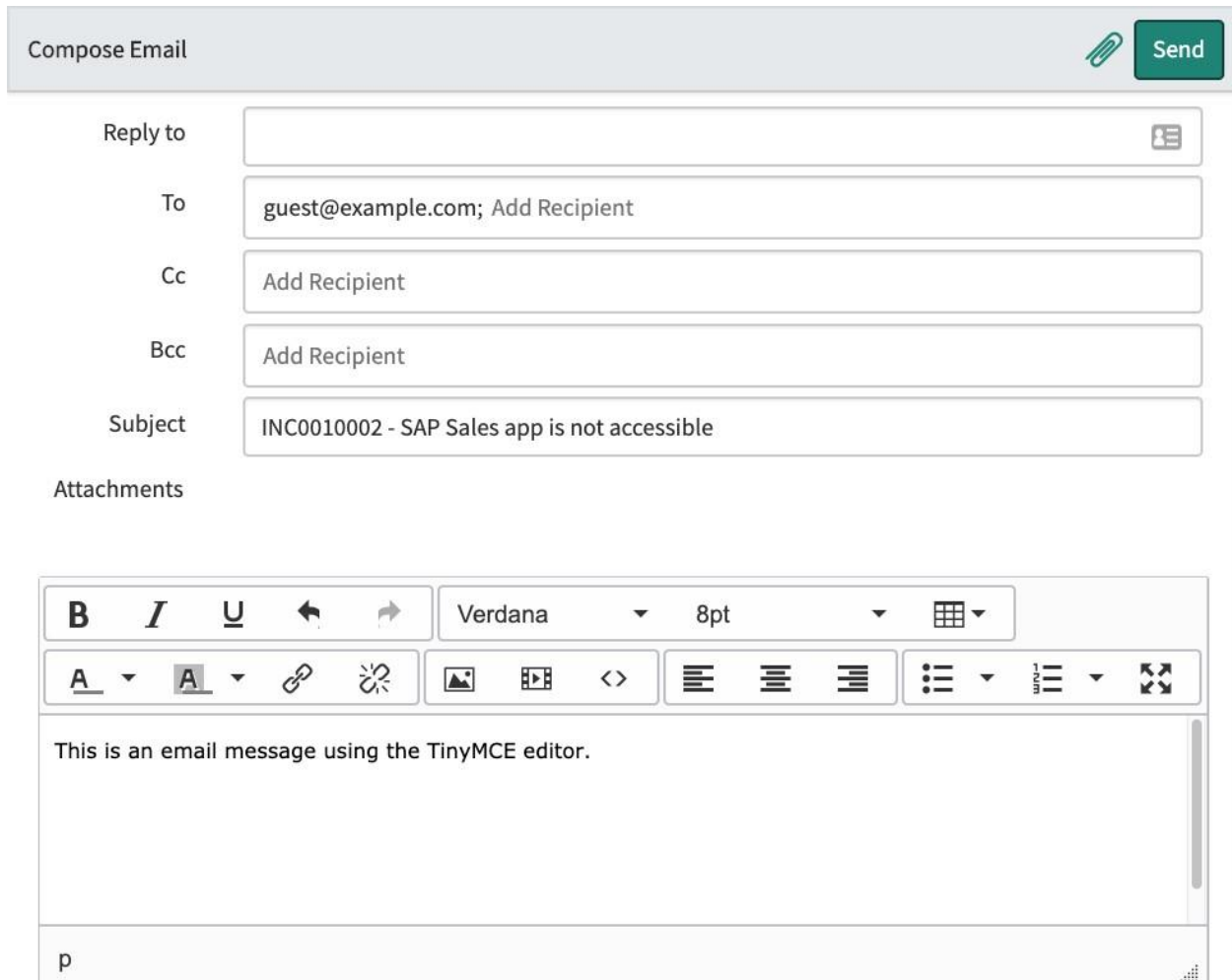


**Question 1. Design the Tkinter GUI interface for sending the mail using Gmail. All students have to configure this problem with their own Gmail accounts and have to attach snapshots of received mail in their particular Gmail account by using this interface.**

**Sample Interface:**



The image shows a sample email compose interface. At the top, there is a header bar with the text "Compose Email" on the left and a green "Send" button on the right, preceded by a paperclip icon. Below the header, there are five input fields for email metadata: "Reply to" (empty), "To" (containing "guest@example.com; Add Recipient"), "Cc" (containing "Add Recipient"), "Bcc" (containing "Add Recipient"), and "Subject" (containing "INC0010002 - SAP Sales app is not accessible"). Below these fields is an "Attachments" section. The main body of the interface is a text editor with a toolbar at the top. The toolbar includes buttons for bold (B), italic (I), underline (U), undo (left arrow), and redo (right arrow). It also has a font family dropdown set to "Verdana" and a font size dropdown set to "8pt". Further right are icons for text color, background color, link, unlink, insert image, insert video, source code, bulleted list, numbered list, indent, and outdent. The text area below the toolbar contains the text "This is an email message using the TinyMCE editor." and a vertical scrollbar on the right. At the bottom left of the text area, there is a small "p" icon.

```
from tkinter import *
```

```
from tkinter import ttk
```

```
import smtplib
```

```
import webbrowser
```

```

def sendemail():
    try:

        sender = account.get()
        receipient = [receiver.get()]
        sub = subject.get()
        pswrd = password.get()
        msg = msgbody.get('1.0','end')
        msgtosend = """\
From: %s
To: %s
Subject: %s
%s
"" " % (sender, receipient, sub, msg)
        mail = smtplib.SMTP('smtp.gmail.com',587)
        mail.starttls()
        mail.login(sender, pswrd)
        mail.sendmail(sender, receipient, msgtosend)
        mail.close()

        ttk.Label(mainframe, text="Email sent successfully").grid(column=4,row=9,sticky=W)

    except Exception as e:
        ttk.Label(mainframe, text=str(e)).grid(column=4,row=9,sticky=W)

def setup(event):
    webbrowser.open_new(r"https://www.google.com/settings/security/lesssecureapps")

```

```

root = Tk()

root.title("Send an Email via Gmail !!")


mainframe = ttk.Frame(root, padding="3 3 12 12")
mainframe.grid(column=0, row=0, sticky=(N, W, E, S))
mainframe.columnconfigure(0, weight=1)
mainframe.rowconfigure(0, weight=1)


account = StringVar()
password = StringVar()
receiver = StringVar()
subject = StringVar()
msgbody = StringVar()


a = Label(mainframe, text="To use this app turn this setting ON for your account", fg="blue",
cursor="hand2")
a.grid(columnspan=2, column=3, row=0, sticky=W)
a.bind("<Button-1>", setup)


ttk.Label(mainframe, text="Your Email Account: ").grid(column=0, row=1, sticky=W)
account_entry = ttk.Entry(mainframe, width=30, textvariable=account)
account_entry.grid(column=4, row=1, sticky=(W, E))


ttk.Label(mainframe, text="Your Password: ").grid(column=0, row=2, sticky=W)
password_entry = ttk.Entry(mainframe, show="*", width=30, textvariable=password)
password_entry.grid(column=4, row=2, sticky=(W, E))


ttk.Label(mainframe, text="Receipient's Email Account: ").grid(column=0, row=3, sticky=W)

```

```
receiver_entry = ttk.Entry(mainframe, width=30, textvariable=receiver)
receiver_entry.grid(column=4, row=3, sticky=(W, E))

ttk.Label(mainframe, text="Let's Compose").grid(column=2, row=5, sticky=W)

ttk.Label(mainframe, text="Subject: ").grid(column=0, row=6, sticky=W)
subject_entry = ttk.Entry(mainframe, width=30, textvariable=subject)
subject_entry.grid(column=4, row=6, sticky=(W, E))

ttk.Label(mainframe, text="Message Body: ").grid(column=0, row=7, sticky=W)
msgbody = Text(mainframe, width=30, height=10)
msgbody.grid(column=4, row=7, sticky=(W, E))

ttk.Button(mainframe, text="Send Email", command=sendemail).grid(column=4, row=8, sticky=E)

for child in mainframe.winfo_children(): child.grid_configure(padx=5, pady=5)

account_entry.focus()

root.mainloop()
```

## **output**

