**Practical Assignment 2**

**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.**

**Ans.**

from tkinter import \*

from tkinter import ttk

import smtplib

import webbrowser

def sendemail():

try:

sender = account.get()

recepient = [receiver.get()]

sub = subject.get()

pswrd = password.get()

msg = msgbody.get('1.0','end')

msgtosend = """\

From: %s

To: %s

subject: %s

%s

""" % (sender, recepient, sub, msg)

mail = smtplib.SMTP('smtp.gmail.com',587)

mail.starttls()

mail.login(sender, pswrd)

mail.sendmail(sender, recepient, 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")

def clear\_search(event):

Cc.delete(0,END)

my\_window = Tk()

my\_window.title("Compose Email")

my\_window.configure(background='gray')

mainframe = ttk.Frame(my\_window, 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)

mainframe=my\_window

account = StringVar()

password = StringVar()

receiver = StringVar()

Cc = StringVar()

Bcc = StringVar()

subject = StringVar()

msgbody = StringVar()

a = Label(mainframe, text="Click here to go to the settings to turn on the settings to use this app" , fg="red", cursor="hand2", background='gray')

a.grid(columnspan=2,column=0, row=0, sticky=W)

a.bind("<Button-1>", setup)

ttk.Label(mainframe, text="Your Email Account:", background='gray' ).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: ", background='gray').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="Reply to" , background='gray').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="Cc", background='gray').grid(column=0, row=4, sticky=W)

Cc = ttk.Entry(mainframe, width=30, textvariable=Cc)

Cc.grid(column=4, row=4, sticky=(W, E))

Cc.insert(0, "Add Recipient")

Cc.bind("<Button-1>", clear\_search)

def clear\_search(event):

Bcc.delete(0,END)

ttk.Label(mainframe, text="Bcc", background='gray').grid(column=0, row=5, sticky=W)

Bcc = ttk.Entry(mainframe, width=30, textvariable=Bcc)

Bcc.grid(column=4, row=5, sticky=(W, E))

Bcc.insert(0, "Add Recipient")

Bcc.bind("<Button-1>", clear\_search)

ttk.Label(mainframe, text="Compose Email", background='gray').grid(column=2, row=6, sticky=W)

ttk.Label(mainframe, text="Subject: ", background='gray').grid(column=0, row=7, sticky=W)

subject = ttk.Entry(mainframe, width=30, textvariable=subject)

subject.grid(column=4, row=7, sticky=(W, E))

ttk.Label(mainframe, text="Message Body: ", background='gray').grid(column=0, row=8, sticky=W)

msgbody = Text(mainframe, width=30, height=10)

msgbody.grid(column=4, row=8, sticky=(W, E))

ttk.Button(mainframe, text="Send", command=sendemail).grid(column=4,row=9,sticky=E)

for child in mainframe.winfo\_children(): child.grid\_configure(padx=5, pady=5)

account\_entry.focus()

my\_window.mainloop()

**Output:-**

First we have to click on "Click here to go to the settings to turn on the settings to use this app" link a web page of gmail settings will open under that we have to turn on “Allow less secure apps”. After turning on this, setting will automatically update and now we can use our application. The web page will look like:-









