**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.**

**CODE:-**

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")

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="Recepient'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))

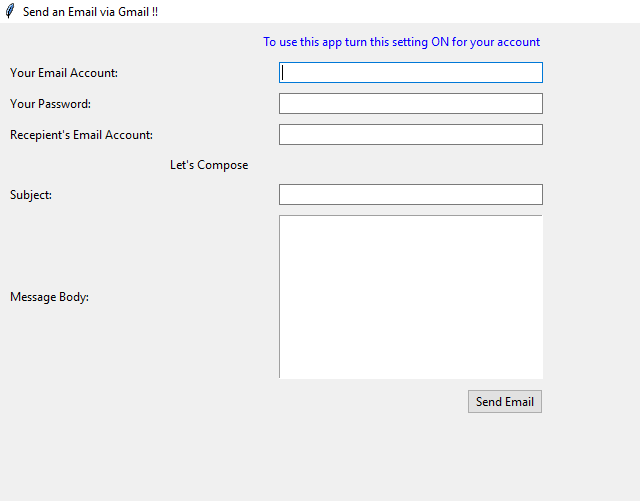
ttk.Button(mainframe, text="Send Email", command=sendemail).grid(column=4,row=8,sticky=E)

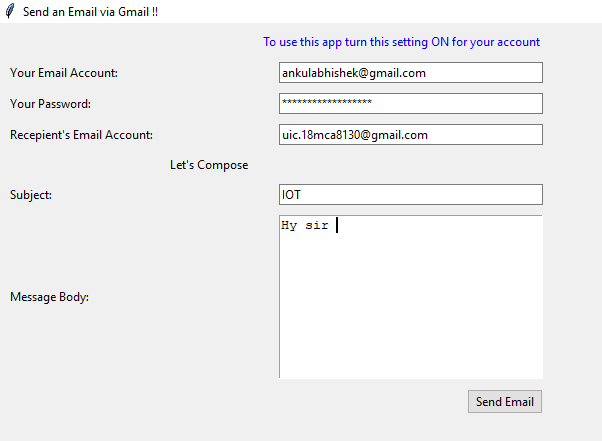
for child in mainframe.winfo\_children(): child.grid\_configure(padx=5, pady=5)

account\_entry.focus()

root.mainloop()

**output:-**

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