**I2C PROJECT REPORT**

**Custom Email generator**

Custom Email generator is used to send emails to any number of contacts simultaneously. Contact names and emails are stored in a txt document. A function of “get contacts” is used to open the txt document and read through the names and emails. Split function splits the contacts file into two lists. The names will be stored in a separate list and emails will be stored in a separate list. Now we import itertools to run for loop for names and emails simultaneously because we want to send an email to an email address with the name of that person. With the help of smtp lib (built in module to send email in python ) we login to our gmail account and with smtp.starttls we establish a secure connection for third party access (python). We write subject and body of the email and send it to receiver email from the emails list. As the loop iterates, a single mail is sent to all emails in emails list with the name changed in each iteration.

After the email is sent, the status of the sent mail is shown. If the status is shown it means that the code has run successfully without any errors. We can also see the history of sent mails. For this purpose we use the IMAP lib and again we login to our gmail account and select the no. of messages we want to see. We use a for loop to iterate through the selected no. of messages and print the subject, sender mail and receiver mail of the sent emails.

**Our project is based on three main parts.**

1. Make two separate lists of names and emails from contacts file
2. Setup the simple mail transfer protocol (smtp)
3. Fetch sent mail histroy ( Real time )

**Lists of names and emails :**

* Make function of get contacts
* Read the file with open("contacts.txt",'r') function
* return two separate list of names with the help of split function
* Use iter tool ( to run for loop for 2 lists simultaneously

**Setting up SMTP :­**

* Import simple mail transfer protocol predefined library
* Login to senders email account

EMAIL\_ADDRESS= '\*\*\*\*\*\*\*'

PASSWORD= '\*\*\*\*\*\*\*\*'

* Use smtp functions to access gmail and establish a secure connection ( smtp ehlo, smtp.starttls, smtp.login)
* Define the subject and body of email.
* An email will be sent to all contacts in contacts file with their names. (smtp.sendmail(EMAIL\_ADDRESS,reciever,msg))

**­Fetch Mail History (real time):**

* Import internet mail access protocol library
* establish connection with Gmail
* login into the gmail account
* select the sent e-mails
* determine the number of e-mails to be fetched
* iterate over the e-mails and fetch sender’s email address, subject and receiver’s email address
* Sent history will be displayed with print function