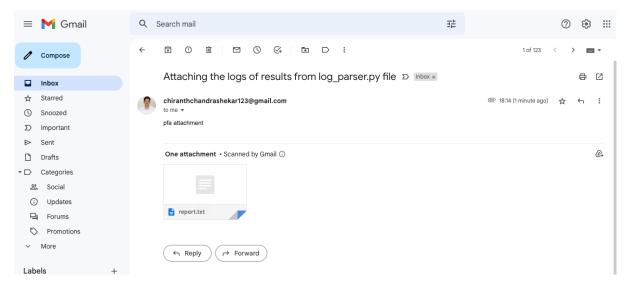
## Log parsing + JSON - Assignment

**Git Repository** - <a href="https://github.com/CHIRANTH-C/logparsing.git">https://github.com/CHIRANTH-C/logparsing.git</a> **Assignment 1.** 

Log parsing, finish the send email() function.

```
import re
import smtplib
def read logs(filepath):
  file contents = open(filepath,'r')
  file contents.close()
def parse logs(logs,regexp):
      matches = re.match(regexp,log_entry)
          matched groups = matches.groups()
           timestamp , func , process , message = matched_groups
           matched logs.append((timestamp , func , process , message))
  report file = open("report.txt","w")
  report_file.write(report_message)
      report file.write(str(log))
      report file.write("\n")
def send email(email address,password,report1):
```

```
EMAIL_PASSWORD = password
  msg.set content('pfa attachment')
  for file in files:
       with open(file, 'rb') as f:
filename=file name)
       smtp.ehlo()
       smtp.ehlo()
       smtp.login(EMAIL ADDRESS,EMAIL PASSWORD)
       smtp.send_message(msg)
logs list = read logs("logs.txt")
found logs = parse logs(logs list,regexp=r'(.*) W (.*): (.*): (.*10091.*)')
generate report(found logs)
send email('chiranthchandrashekar123@gmail.com','cjwjvuyxhjcxnmzq','report.txt')
```



## Assignment 2.

Write regex for ActivityManager Info and Warning, but not Debug

```
import re
import smtplib
from email.message import EmailMessage
def read logs(filepath):
  file_contents = open(filepath,'r')
  file contents.close()
def parse logs(logs,regexp):
  matched logs = []
           matched groups = matches.groups()
           matched logs.append((timestamp , func , process , message))
def generate report(matched logs):
  report file = open("report assignment.txt","w")
  report message = "The number of logs is: " + str(entries) + "\n"
  report file.write(report message)
       report file.write(str(log))
def send email(email address,password,report1):
  msg['Subject'] = 'Attaching the logs !'
```

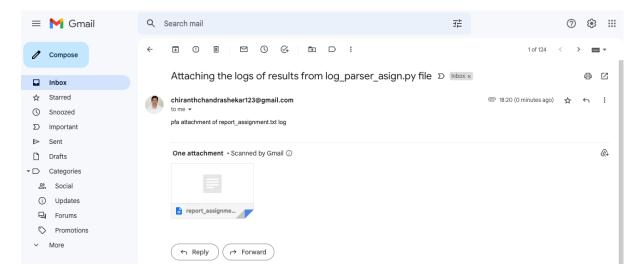
```
files = [report1]
for file in files:
    with open(file,'rb') as f:
        file_data = f.read()
        file_name = f.name
        msg.add_attachment(file_data,maintype='appplication',subtype='octet-stream',
filename=file_name)

with smtplib.SMTP('smtp.gmail.com',587) as smtp:
    smtp.ehlo()
    smtp.starttls()
    smtp.ehlo()

smtp.login(EMAIL_ADDRESS,EMAIL_PASSWORD)

smtp.send_message(msg)

logs_list = read_logs("logs_txt")
found_logs = parse_logs(logs_list,regexp=r'(.*) ([I,W]) (ActivityManager): (.*)')
generate_report(found_logs)
send_email('chiranthchandrashekar123@gmail.com','cjwjvuyxhjcxnmzq','report_assignment.txt')
```



## Assignment 3.

Finish generate\_remote() and send\_email()

```
import json
import smtplib
from email.message import EmailMessage
# 1. Read the json file
```

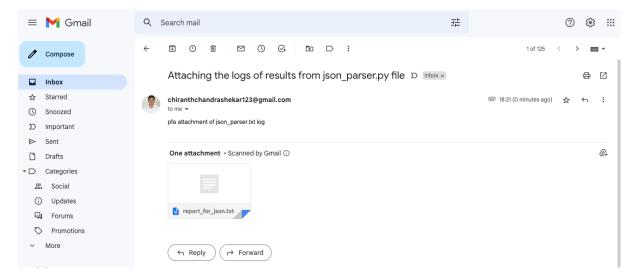
```
def read_json(filename):
  read file = open(filename,'r')
def parse json(read data):
  users_data = read_data["users"]
parsed json.append((user["firstName"],user["lastName"],user["macAddress"]))
def generate_report(matched_logs):
  report file = open("report for json.txt","w")
  report message = "The number of logs is: " + str(entries) + "\n"
  report file.write(report message)
       report file.write(str(log))
def send email(email address,password,report1):
  msg['Subject'] = 'Attaching the logs of results from json parser.py file'
  msg['To'] = EMAIL ADDRESS
  files = [report1]
  for file in files:
       with open(file,'rb') as f:
      msg.add attachment(file_data, maintype='appplication', subtype='octet-stream',
filename=file name)
```

```
with smtplib.SMTP('smtp.gmail.com',587) as smtp:
    smtp.ehlo()
    smtp.starttls()
    smtp.ehlo()

smtp.login(EMAIL_ADDRESS,EMAIL_PASSWORD)

smtp.send_message(msg)

users_json = read_json("users.json")
parsed_json = parse_json(users_json)
generate_report(parsed_json)
send_email('chiranthchandrashekar123@gmail.com','cjwjvuyxhjcxnmzq','report_for_json.txt')
```



## Assignment 4.

Parse https://dummyjson.com/carts

Parse name and quantity for each product in each cart and generate report with total cart cost.

```
import json
import smtplib
from email.message import EmailMessage

# 1. Read the json file
def read_json(filename):
    read_file = open(filename,'r')
    read_json_string = read_file.read()
    data_json = json.loads(read_json_string)
    return data_json

# 2. Parse the Json
```

```
def parse_json(read_data):
  for cart in carts data:
           parsed json.append((product["title"],product["quantity"]))
def generate_report(parsed_json , total_cart_cost):
  report file = open("report for carts json.txt","w")
  entries = len(parsed json)
  report message = "The number of logs is: " + str(entries) + "\n"
  report file.write(report message)
       report file.write(str(log))
  report file.write("total cart cost : "+str(total cart cost))
def send email(email address,password,report1):
  EMAIL ADDRESS = email address
  msg['Subject'] = 'Attaching the logs of results from json parser assign.py file'
  msg['From'] = EMAIL ADDRESS
  msg.set content('pfa attachment of json parser assign.txt log')
  files = [report1]
  for file in files:
      with open(file,'rb') as f:
           file name = f.name
       msg.add_attachment(file_data, maintype='appplication', subtype='octet-stream',
filename=file name)
      smtp.ehlo()
       smtp.login(EMAIL ADDRESS,EMAIL PASSWORD)
```

```
smtp.send_message(msg)

carts_json = read_json("carts.json")

parsed_json , total_cart_cost = parse_json(carts_json)

generate_report(parsed_json , total_cart_cost)

send_email('chiranthchandrashekar123@gmail.com','cjwjvuyxhjcxnmzq','report_for_cart
s_json.txt')
```

