###### RPA With Python ############

#Import Library

from statistics import \*

import pandas as pd

import numpy as np

import seaborn as sns

import matplotlib.pyplot as plt

import calendar #####################

from datetime import datetime

import datetime

import pathlib

#Check Current Directory Path

pathlib.Path().absolute()

#Set Datetime

today = datetime.datetime.now()

#today = today.srtftime("%d"+"%m"+"%y")

today = today.strftime("%d"+"%m"+"%Y") #Web = www.strftime.org

#Import data

data = pd.read\_csv("<Your Location>/1500000 Sales Records.csv") # Example C:/Users/myname/Desktop/1500000 Sales Records.csv

#Rename Column

data = data.rename(columns ={"Item Type" : "Item\_Type", "Order Date":"Order\_Date"})

#Create %margin column

data["%margin"] = ((data["Total Profit"] / data["Total Revenue"]) \*100).round(2)

#Convert Order\_date to Year and Month and Rename it.

data['year'] = pd.DatetimeIndex(data['Order\_Date']).year

data['month'] = pd.DatetimeIndex(data['Order\_Date']).month

data = data.replace({"month":{

    1 : "1.January",

    2 : "2.February",

    3 : "3.March",

    4 : "4.April",

    5 : "5.May",

    6 : "6.June",

    7 : "7.July",

    8 : "8.August",

    9 : "9.September",

    10 : "10.October",

    11 : "11.November",

    12 : "12.December"

}})

try:

    #Create Report

    top\_ten\_profit = data.sort\_values("Total Profit", ascending = False).head(10)

    daily\_report = data.groupby(["month"])["Total Profit"].sum().round(2).apply(lambda x : "{:,}".format(x))

    #export to excel

    daily\_report.to\_excel("Deily\_report\_"+str(today)+".xlsx")

    top\_ten\_profit.to\_excel("top\_ten\_profit\_"+str(today)+".xlsx")

    #Send Email

    import win32com.client as win32  ###\*\*\* pip install pypiwin32 or pywin32

    outlook = win32.Dispatch('outlook.application')

    mail = outlook.CreateItem(0)

    mail.Sender = "RPARobot\_test@hotmail.com"

    mail.To = "someone@hotmail.com" # Example xxxx@hotmail.com, yyyy@gmail.com

    #mail.CC = "someone.example.com"

    #mail.BCC = "anaone@example.com"

    mail.Subject = "RPA\_Test\_subject"

    mail.Body = "RPA\_Test\_body. The Daily Report and Top ten Profit as at : "+ str(today) + " .Please see attachment file in this Email."

    #attachment = "C:/Users/vee/" = My Current Path

    mail.Attachments.Add("C:/<Your file Location>/Deily\_report\_"+str(today)+".xlsx") ## You can check witj cmd

    mail.Attachments.Add("C:/<Your file Location>/top\_ten\_profit\_"+str(today)+".xlsx")   ## You can check witj cmd

    mail.Send()

    print("Sending Status Success!")

except:

    import win32com.client as win32  ###\*\*\* pip install pypiwin32 or pywin32

    outlook = win32.Dispatch('outlook.application')

    mail = outlook.CreateItem(0)

    mail.Sender = "RPARobot\_test@hotmail.com"

    mail.To = "someone@hotmail.com" # Example xxxx@hotmail.com, yyyy@gmail.com

    #mail.CC = "someone.example.com"

    #mail.BCC = "anaone@example.com"

    mail.Subject = "RPA\_Test\_subject\_Error"

    mail.Body = "RPA\_Test\_body. The Daily Report and Top ten Profit as at : "+ str(today) + " is error."

    mail.Send()

    print("Sending Status Error!")