EXPERIMENT-13

Aim: Study of malicious software using tools: Keylogger attack using a keylogger tool.

Roll No.	70
Name	MAYURI SHRIDATTA YERANDE
Class	D15-B
Subject	Internet Security Lab
LO Mapped	LO1: To apply the knowledge of symmetric cryptography to implement classical ciphers.

AIM: Study of malicious software using tools: Keylogger attack using a keylogger tool.

THEORY:

Keyloggers, also known as keystroke loggers, may be defined as the recording of the key pressed on a system and saved to a file, and that file is accessed by the person using this malware. Keylogger can be software or can be hardware. Working: Mainly key-loggers are used to steal password or confidential details such as bank information etc. First key-logger was invented in 1970's and was a hardware keylogger and first software key-logger was developed in 1983.

Software key-loggers:

Software key-loggers are computer programs which are developed to steal passwords from the victim's computer. However key loggers are used in IT organizations to troubleshoot technical problems with computers and business networks. Microsoft Windows 10 also has a key-logger installed in it.

1. JavaScript based keylogger – It is a malicious script which is installed into a web page, and listens for keys to press such as oneKeyUp(). These scripts can be sent by various methods, like sharing through social media, sending as a mail file, or RAT file.

2. Form Based Key loggers – These are key-loggers which activates when a person fills a form online and when click the button submit all the data or the words written is sent via file on a computer. Some key-loggers works as a API in running application it looks like a simple application and whenever a key is pressed it records it.

Hardware Key-loggers:

These are not dependent on any software as these are hardware key-loggers. keyboard hardware is a circuit which is attached in a keyboard itself that whenever the key of that keyboard pressed it gets recorded.

1. USB keylogger – There are USB connector key-loggers which has to be connected to a computer and steals the data. Also some circuits are built into a keyboard so no external wire i used or shows on the keyboard.

2. Smartphone sensors – Some cool android tricks are also used as key loggers such as android accelerometer sensor which when placed near to the keyboard can sense the

vibrations and the graph then used to convert it to sentences, this technique accuracy is about 80%. Now a days crackers are using keystroke logging Trojan, it is a malware which is sent to a victims computer to steal the data and login details.

**Some keylogger application used in 2020 are:**

1. Kidlogger
2. Best Free Keylogger
3. Windows Keylogger
4. Refog Personal Monitor
5. All In One Keylogger

Prevention from key-loggers:

1. Anti-Key-logger – As the name suggests these are the software which are anti / against keyloggers and main task is to detect key-loggers from a computer system.

2. Anti-Virus – Many anti-virus software also detect keyloggers and delete them from the computer system. These are software anti-software so these can not get rid from the hardware key-loggers.

3. Automatic form filler – This technique can be used by the user to not fill forms on regular bases instead use automatic form filler which will give a shield against key-loggers as keys will not be pressed .

4. One-Time-Passwords – Using OTP's as password may be safe as every time we login we have to use a new password.

5. Patterns or mouse-recognition – On android devices used pattern as a password of applications and on PC use mouse recognition, mouse program uses mouse gestures instead of stylus.

6. Voice to Text Converter – This software helps to prevent Keylogging which targets a specific part of our keyboard.
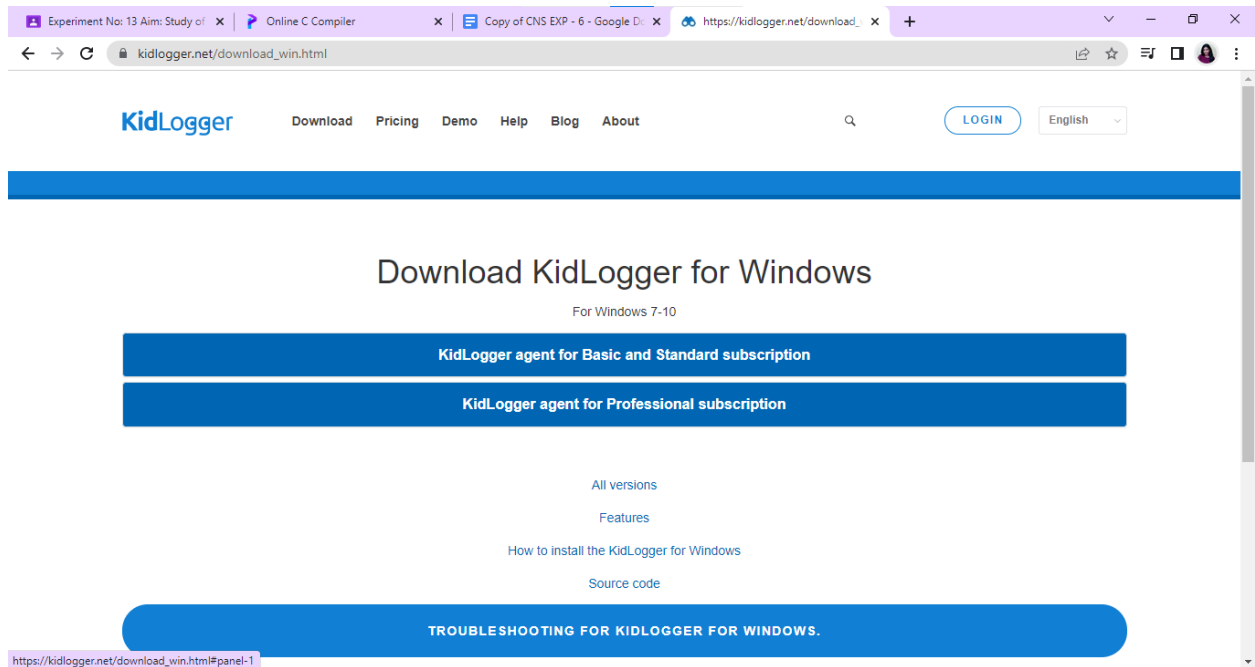
IMPLEMENTATION:

- Link:- https://kidlogger.net/
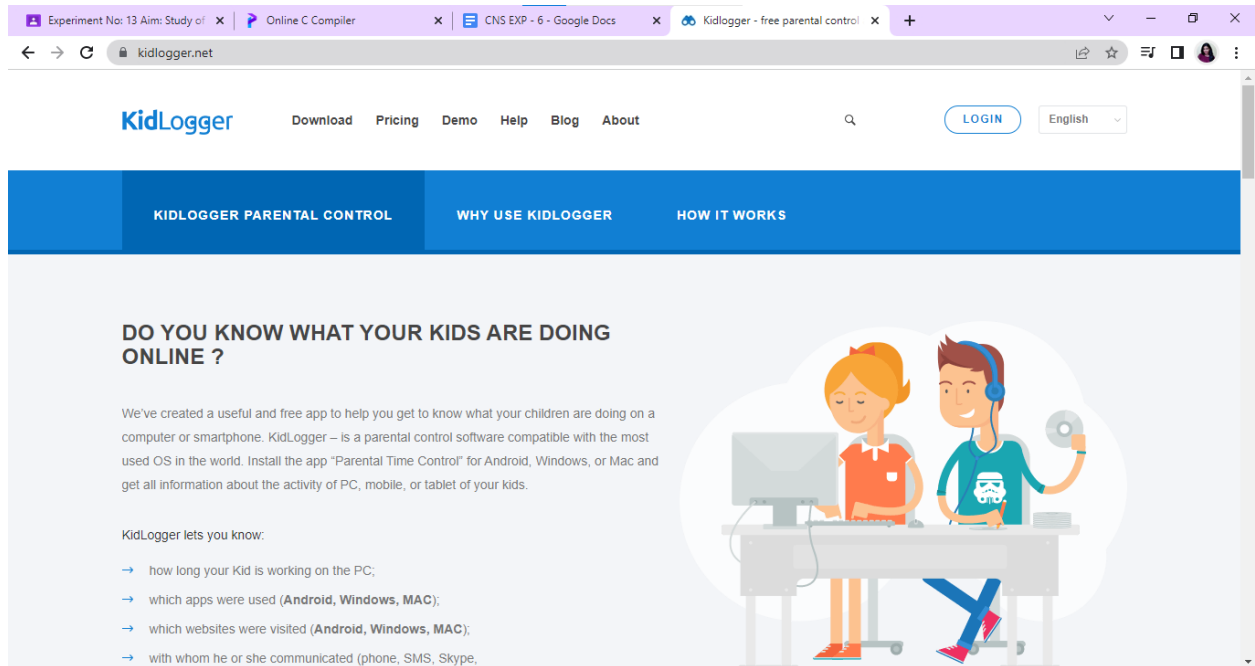
- Go to downloads
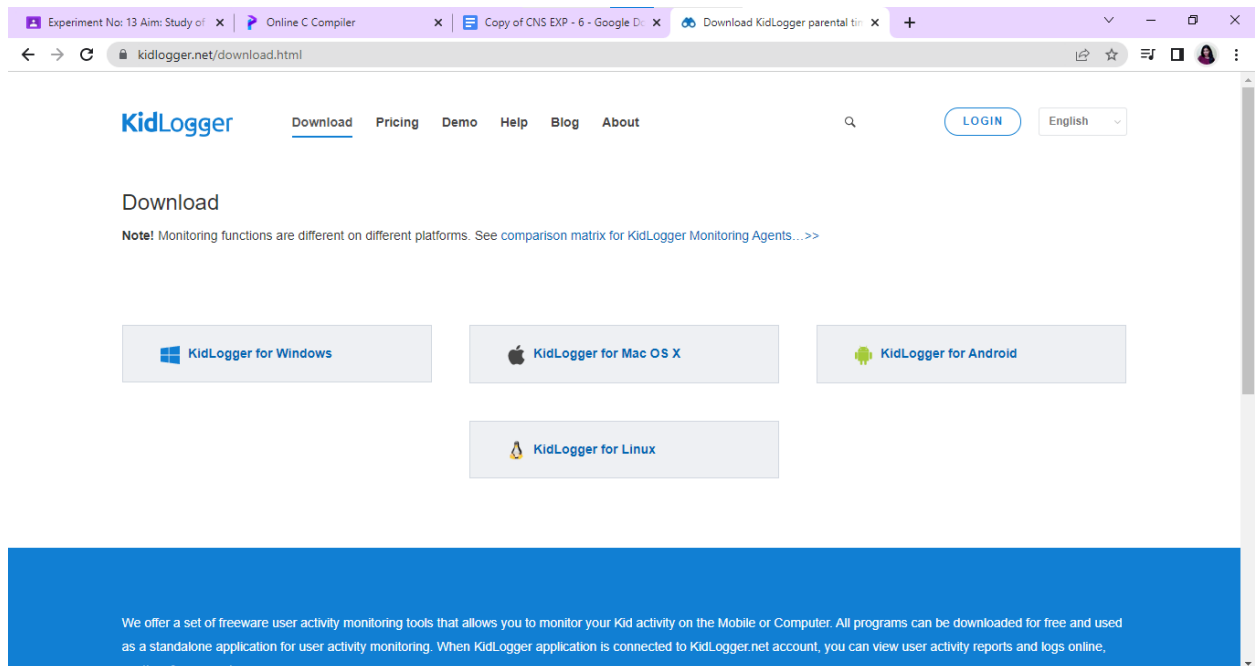
- Choose "Kidlogger agent for basic and standard subscription"

- It is successfully downloaded if you can see this zip file
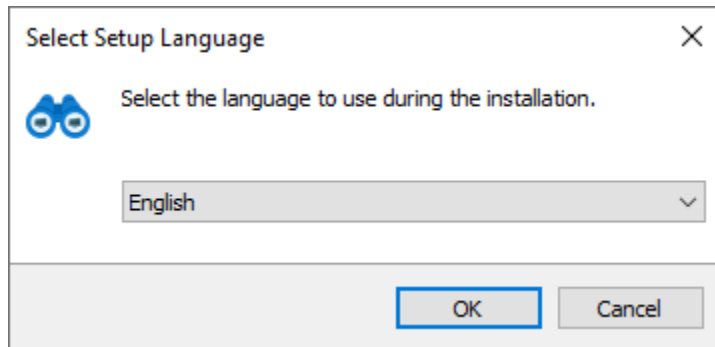- Extract the zip file

- After extracting, Click on "install"
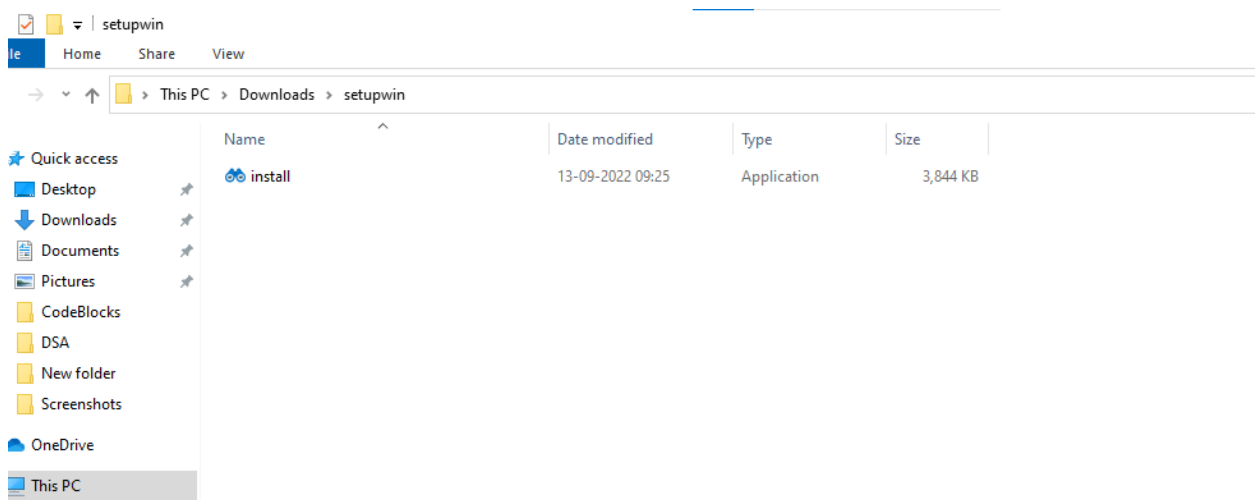
- Select the language you want to

- Click on "next"

Setup - KidLogger

Select Additional Tasks
Which additional tasks should be performed?

Select the additional tasks you would like Setup to perform while installing KidLogger, then click Next.
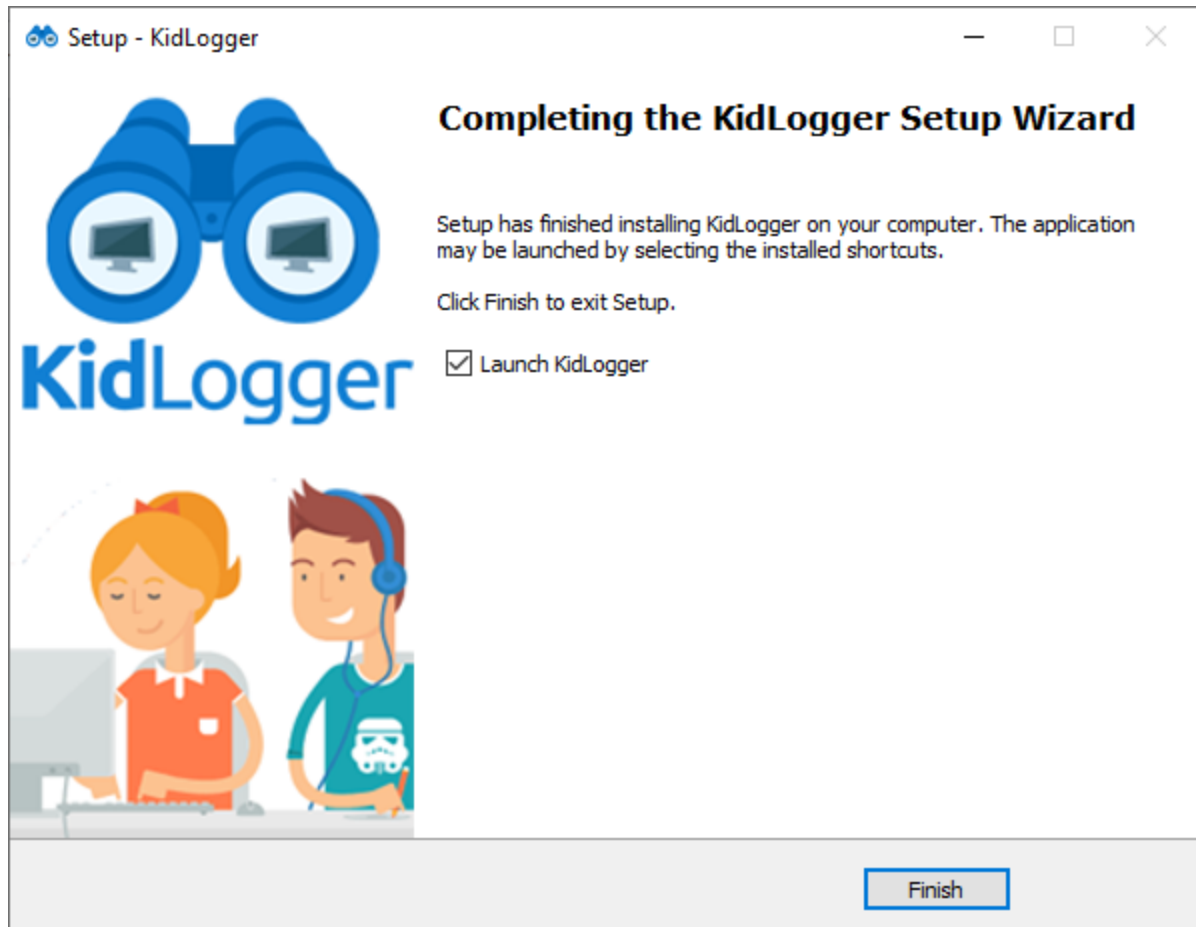
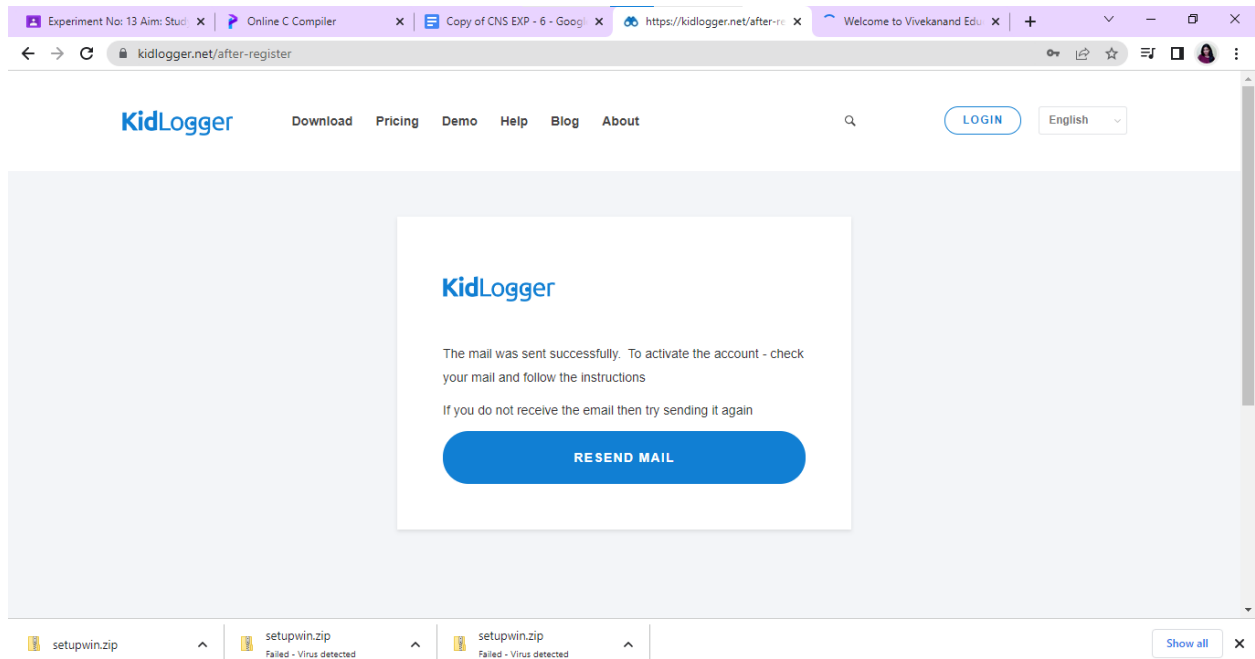Additional shortcuts:

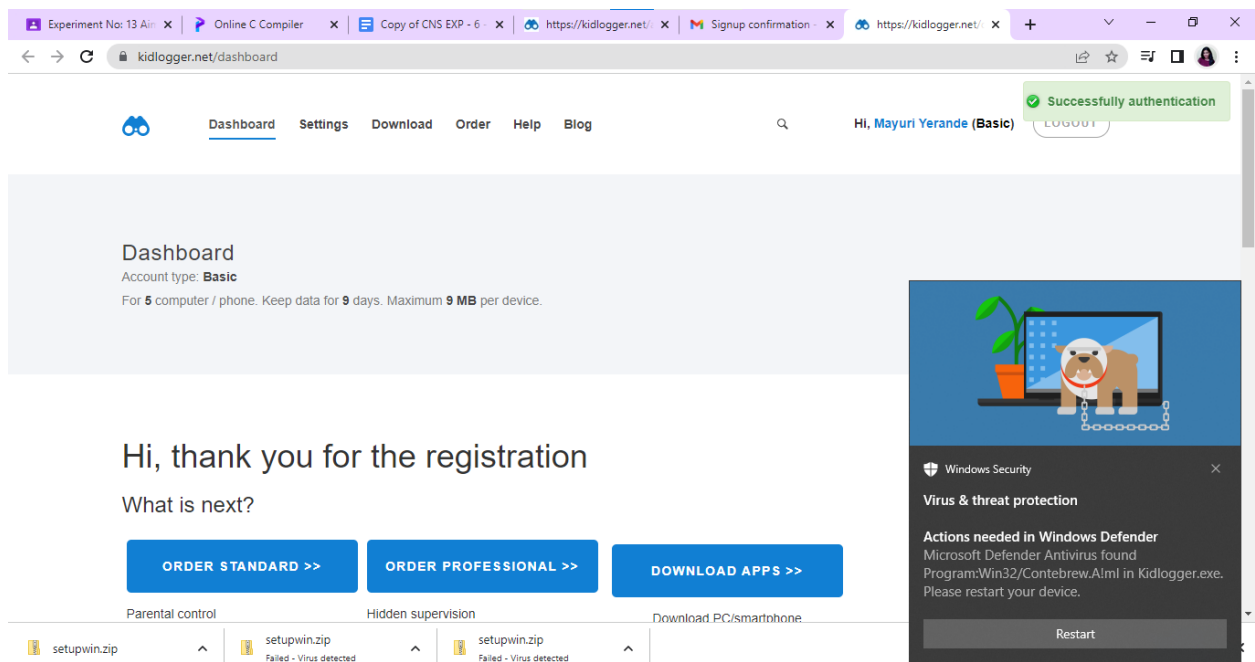☑ Create a desktop shortcut

Back   Next   Cancel

- It is successfully installed.
- To activate your account ,click on the link you received on your mail

● You have successfully logged in.

● In kidlogger properties, add your account and connect it.

KidLogger Properties   ✕

KidLogger.net | General | Screenshots | Format

Connect it with your KidLogger.net account to remotely
supervise the Computer usage. View screentime reports online.

Enter your KidLogger.net login email or Device ID:

2020.mayuri.yerande@ves.ac.in

Sign-up to KidLogger.net and monitor 1 computer or mobile for free >

┌───┐
│   Connect to KidLogger.net account   │
└───┘

┌───┐
│   Disconnect   │
└───┘

Last report status: ()
Last sent file:
Current Settings: , , , , , Screen capture, , , , ,

              OK   Cancel   Help

KidLogger Properties

KidLogger.net | General | Screenshots | Format

Connect it with your KidLogger.net account to remotely
supervise the Computer usage. View screentime reports online.

Enter your KidLogger.net login email or Device ID:

ke7-g4-9j4

Sign-up to KidL...   or free >

KidLogger

Connected sucessfully!

OK

Status: {"status":"success","settings":{"logUrl":"1","logUsb":"0","freqSe
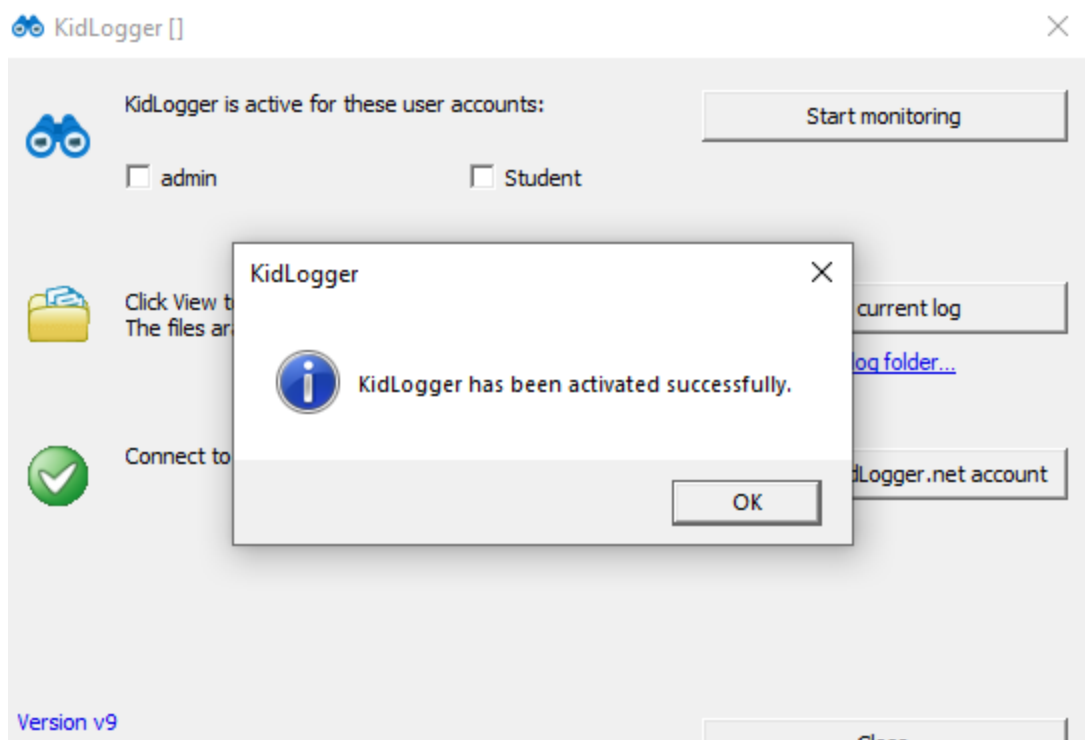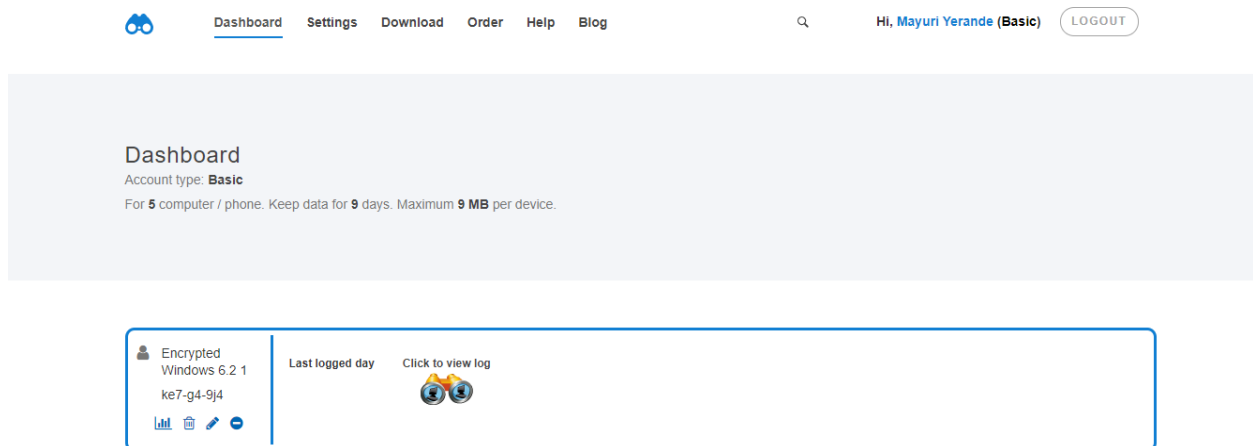
OK   Cancel   Help

- Click on "start monitoring"

- Now go back to your Dashboard and click on "click to view log"

- Go on to some random websites like youtube or maps etc and then your activity status will get reflected on your dashboard.

- Like this:-

Encryption options

Save log file

Total time

Total Idle

09:58   system
    🔗   09:58:18 Basic account. Some features is in demo   System
         mode.

09:58   system
    🔗   09:58:18 New session for Student. [INFT511-06 RDP:0].   System
         (ver:19 Jul 2022)

User Activity on 9/13/22   Last activity ...   🔄   September, 2022

Choose the day:

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Choose the hour:

0   1   2   3   4   5   6   7   8   9   10   11   12   13   14   15   16   17   18   19   20   21   22   23

                                         Filter types:

Log must contain text   --Any--

13 September 2022, Tuesday(13-09-2022.htm)

CONCLUSION: We have successfully studied malicious software using tools: Keylogger attack using a keylogger tool.