

PROFESSIONAL TRAINING REPORT
AT
SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

Submitted in partial fulfillment of the requirements for the award of
Bachelor of Engineering Degree in INFORMATION TECHNOLOGY

By
R.M. SUSIL KUMAR
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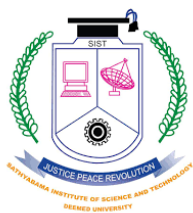


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SCHOOL OF COMPUTING

SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
JEPPIAAR NAGAR, RAJIV GANDHI SALAI,
CHENNAI – 600119, TAMILNADU

NOVEMBER 2021



**SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BONAFIDE CERTIFICATE

This is to certify that this Project Report is the bonafide work of **R.M. SUSIL KUMAR. (39120126)** who carried out the project entitled "**INFORMATION GATHERING**" under my supervision November 2021.

Internal Guide

G.MATHIVANAN M.E.,Ph.D.,

Head of the Department

Dr.R.SUBHASHINI,M.E.,Ph.D.,

Submitted for Viva voce Examination held on _____

InternalExaminer

ExternalExaminer

DECLARATION

I, **R.M. SUSIL KUMAR** hereby declare that the project report entitled **INFORMATION GATHERING** done by me under the guidance of **Dr.G.MATHIVANAN M.E.,Ph.D.**, is submitted in partial fulfillment of the requirements for the award of Bachelor of Engineering Degree in **INFORMATION TECHNOLOGY**

DATE:

PLACE:

SIGNATURE OF THE CANDIDATE

ACKNOWLEDGEMENT

I am pleased to acknowledge my sincere thanks to **Board of Management of SATHYABAMA** for their kind encouragement in doing this project and for completing it successfully. I am grateful to them.

I convey my thanks to **Dr. T. Sasikala M.E., Ph.D, Dean, School of Computing, Dr. S. Vigneshwari, M.E., Ph.D. and Dr. L. Lakshmanan, M.E., Ph.D., Heads of the Department of INFORMATION TECHNOLOGY** for providing me necessary support and details at the right time during the progressive reviews.

I would like to express my sincere and deep sense of gratitude to my Project Guide **Dr. G.MATHIVANAN M.E.,Ph.D.,** for his valuable guidance, suggestions and constant encouragement paved way for the successful completion of my project work.

I wish to express my thanks to all Teaching and Non-teaching staff members of the **Department of INFORMATION TECHNOLOGY** who were helpful in many ways for the completion of the project.

TRAINING CERTIFICATE



CERTIFICATE OF COMPLETION

CSW-I-16-081121 is given to

R M SUSIL KUMAR

For completing the Cyber Security training that includes basics of Cyber Security, Pentesting, Networking, and WebApp.

Aaron V Sandeen

AARON SANDEEN
CEO - CSW

N. Vengatesh

VENGATESH NAGARAJAN
MENTOR



ABSTRACT

Information Gathering means **gathering different kinds of information about the target**. It is basically, the first step or the beginning stage of Ethical Hacking, where the penetration testers or hackers tries to gather all the information about the target, in order to use it for Hacking.

Used in **national security, law enforcement, and business intelligence functions** .

The more the information gathered about the target, the more the probability to obtain relevant results.

My information gathering tool will be verify the given information by me.
For example :- Phone Number Verifier ,Trace IP.

LIST OF FIGURES:

page no:

- | | |
|---------------|----|
| ○ Screenshots | 7 |
| ○ Screenshots | 8 |
| ○ Screenshots | 9 |
| ○ Screenshots | 10 |

TABLE OF CONTENTS

CHAPTER No.	TITLE	PAGE No
	ABSTRACT	i
	LIST OF FIGURES	ii
	LIST OF TABLES	iii
	LIST OF ABBREVIATIONS	iv
1	INTRODUCTION	1
	1.1 WHAT IS CYBER SECURITY?	1
	1.2WHAT IS INFORMATION GATHERING?	2
2.	INFORMATION GATHERING OF THE PRESENT INVESTIGATION	3
	2.1 NUMBER INFO	3
	2.2 TRACE IP	3
	2.3 NAME INFO	4
	2.4 PDF INFO	4
3.	EXPERIMENTAL OR MATERIALS AND METHODS, REQUIREMENTS USED	5
	3.1 VIRTUAL BOX	5
	3.2 KALI LINUX	6
	3.3 python3	7
	3.4 BEAUTIFULSOUP	8
4	SUMMARY	9
	4.1 RESULT	10
	4.2 CONCLUSION	11

REFERENCES

12

APPENDIX

13

A. SCREENSHOTS

14

B. SOURCE CODE

15

INTRODUCTION

1.1 What is Cyber Security?

Cybersecurity is the protection of computer systems and networks from information disclosure, theft of or damage to their hardware, software, or electronic data, as well as from the disruption or misdirection of the services they provide. It is otherwise known as Computer Security or information Technology security.

IMPORTANCE OF CYBER SECURITY

- User's asset is protected against various cyber security risk and remain intact.
- The importance of ensuring protection from attacks, damage and authorized access on networks, computers and programs is equivalent to daily routine operation of an organization.
- Helping to understand the current trend in it and develop effective solutions.
- Reducing vulnerability in information and ICT systems and networks.

COMMON TOOLS USED FOR CYBER SECURITY

- Passwords
- Antivirus / Anti-malware software
- Software patches
- Fire walls
- Two factor authentication
- Encryption

KEY ELEMENTS OF CYBER SECURITY

- Application security
- Information security
- Network security
- Disaster security
- Operation security

1.2 WHAT IS INFORMATION GATHERING?

Information Gathering means **gathering different kinds of information about the target**. It is basically, the first step or the beginning stage of penetration testers or hackers tries to gather all the information about the target, in order to use it for Hacking.

INFORMATION GATHERING SKILLS

Being an information-gathering specialist means **being able to draw pertinent information from customers skill fully**, even if they do not know the information is pertinent or would not otherwise think to offer it.

IMPORTANT IN INFORMATION GATHERING

It is important to **look at available facts** — objective information, including demographics and best practices. It is also important to look at stakeholder perspectives — subjective information, including the opinions of your clients, potential clients, staff, board members, donors, etc.

INFORMATION GATHERING OF THE PRESENT INVESTIGATION

2.1 NUMBER INFO:

The information that gathered from the given phone number is known as NUMBER INFORMATION. This will shows us the location , country , code , carrier , and international format of the number.

2.2 TRACE IP:

Tracing the global IP address of the internet that connected to our system. Is known as trace IP. This shows the information about the location of your ISP.

2.3 NAME INFO:

A name is a term used for identification by an external observer. They can identify a class or category of things, or a single thing, either uniquely, or within a given context.

2.4 PDF INFO:

THE information that gathered from the given PDF is known as PDF info. it shows the author of the PDF ,date , creator , and producer of the PDF .

EXPERIMENTAL OR MATERIALS AND METHODS, REQUIREMENTS USED

3.1 VIRTUAL BOX

Oracle **VM VirtualBox** is a free and open-source hosted hypervisor for x86 virtualization, developed by Oracle Corporation. **IT is a virtualization software.**

Operating system: Windows, macOS (only Intel-based Macs), Linux and Solaris.

USES OF VIRTUAL BOX

Oracle VM VirtualBox is cross-platform virtualization software. It **allows users to extend their existing computer to run multiple operating systems** including Microsoft Windows, MacOS X, Linux, and Oracle Solaris, at the same time.

ADVANTAGES:

- Lower hardware costs. Many organizations don't fully utilize their hardware resources.
- Quicker Desktop Provisioning and Deployment. Deploying a new physical server often takes numerous time-consuming steps.
- Smaller Footprint.
- Enhanced Data Security.
- Portability.
- Improved IT Efficiency.

3.2 KALI LINUX

Kali Linux is a Debian-derived Linux distribution designed for digital forensics and penetration testing. It is maintained and funded by Offensive Security.

USES OF KALI LINUX

Kali Linux is mainly used for **advanced Penetration Testing and Security Auditing**. Kali contains several hundred tools which are geared towards various information security tasks such as Penetration Testing, Security research, Computer Forensics and Reverse Engineering.

ADVANTAGES OF KALI LINUX:

1. More than 600 penetration tools included
2. Adherence of file-system hierarchy standard
3. Open development tree

4. Multiple-language support
5. Completely customizable
6. Free (as in beer) and always will be
7. Wide-ranging wireless device support

3.3 PYTHON3

Python is an interpreted high-level general-purpose programming language. Its design philosophy emphasizes code readability with its use of significant indentation. Its language constructs as well as its object-oriented approach aim to help programmers write clear, logical code for small and large-scale projects.

3.4 BEAUTIFULSOUP

Beautiful Soup is a Python package for parsing HTML and XML documents. It creates a parse tree for parsed pages that can be used to extract data from HTML, which is useful for web scraping.

SYSTEM REQUIREMENTS

- 1TB HDD
- 8 GB RAM

TOOLS USED

- VISUAL STUDIO CODE (text editor)
- KALI LINUX (operating system)
- VIRTUAL BOX (virtualization)
- PYTHON3

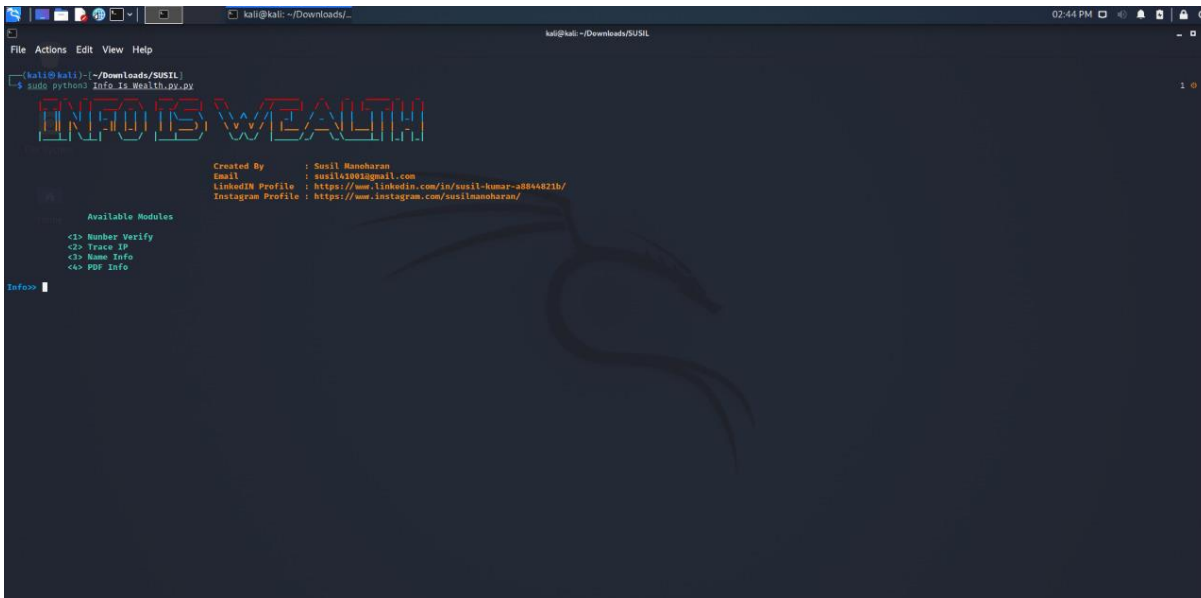
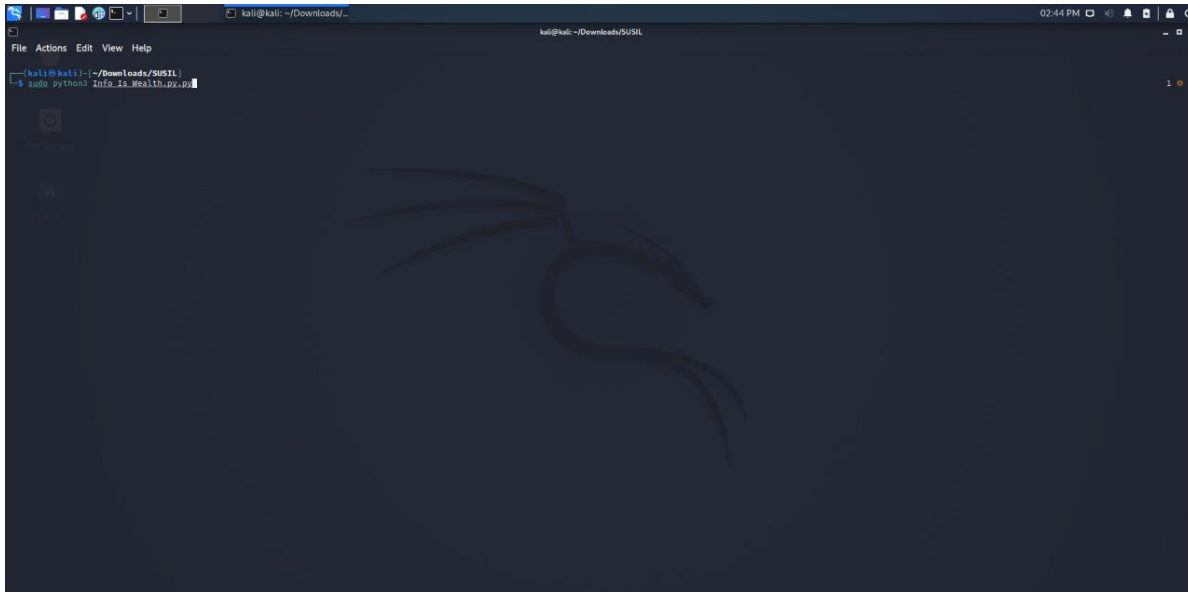
RESULT:

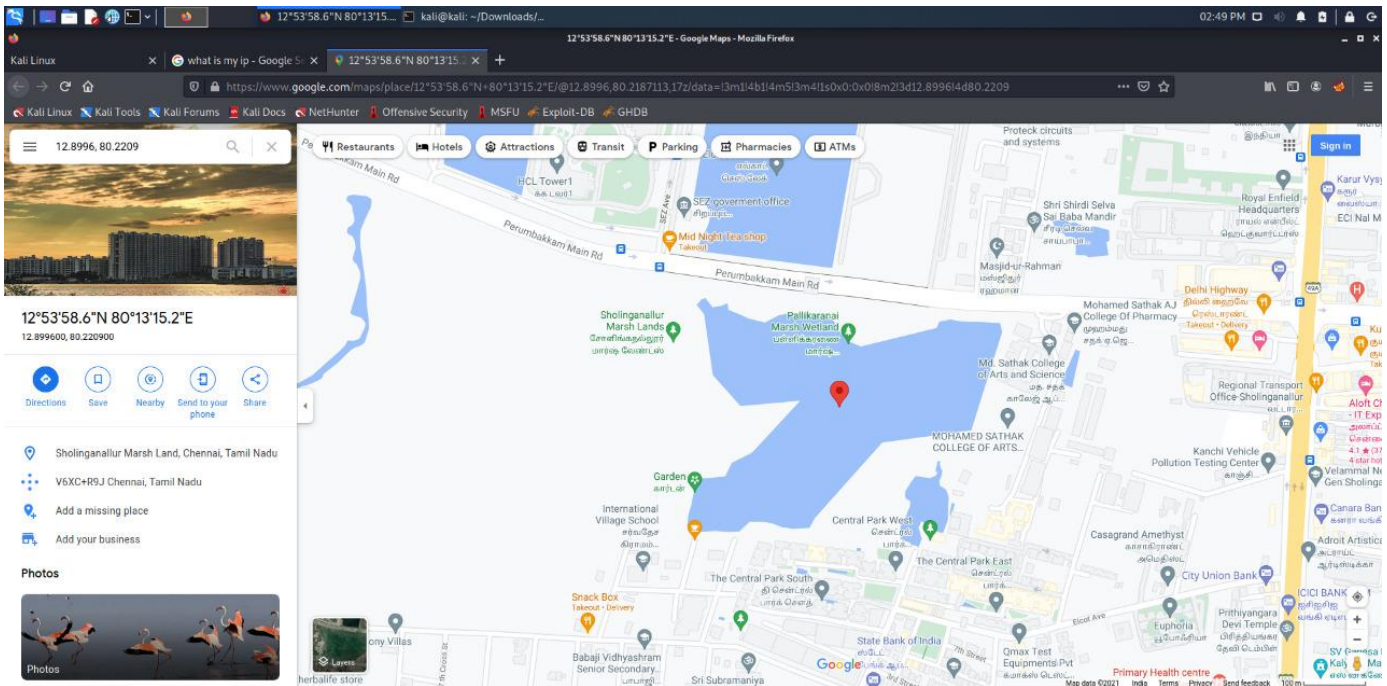
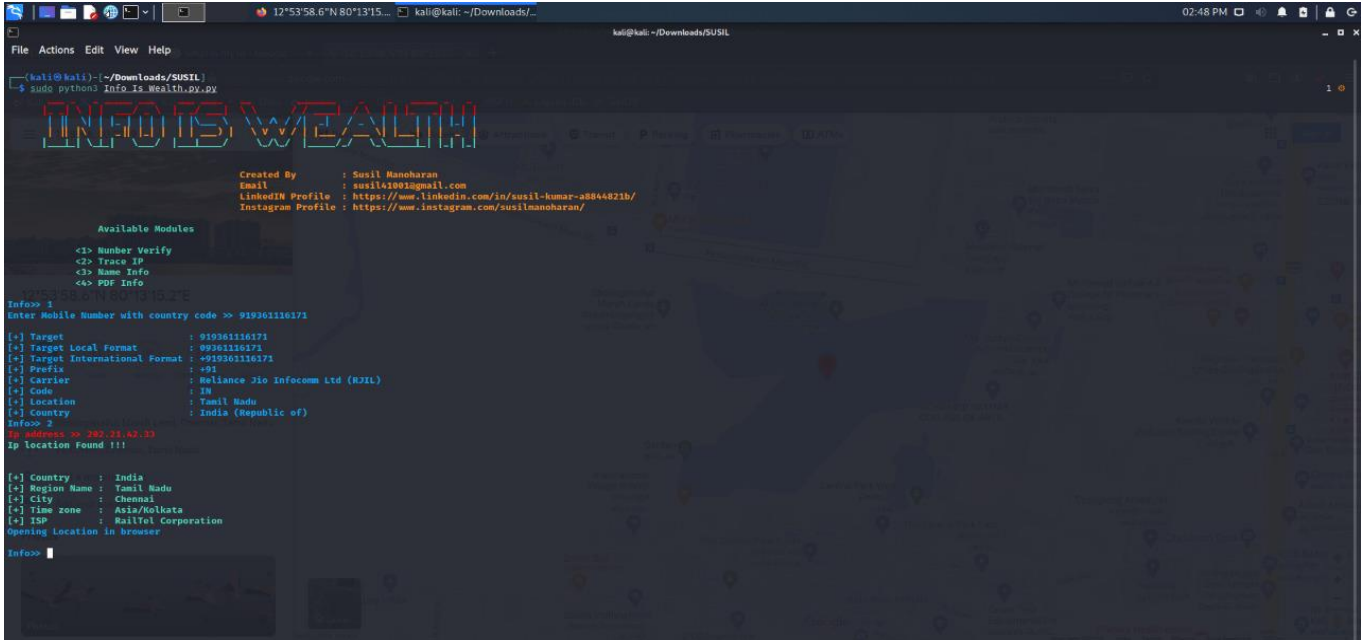
- ▶ **INFORMATION GATHERING is the FIRST or FUNDAMENTAL STEP for penetration testing.**
- ▶ **By using this tool we can save the TIME.**
- ▶ **So I want to automate.& This tool is reliable.**

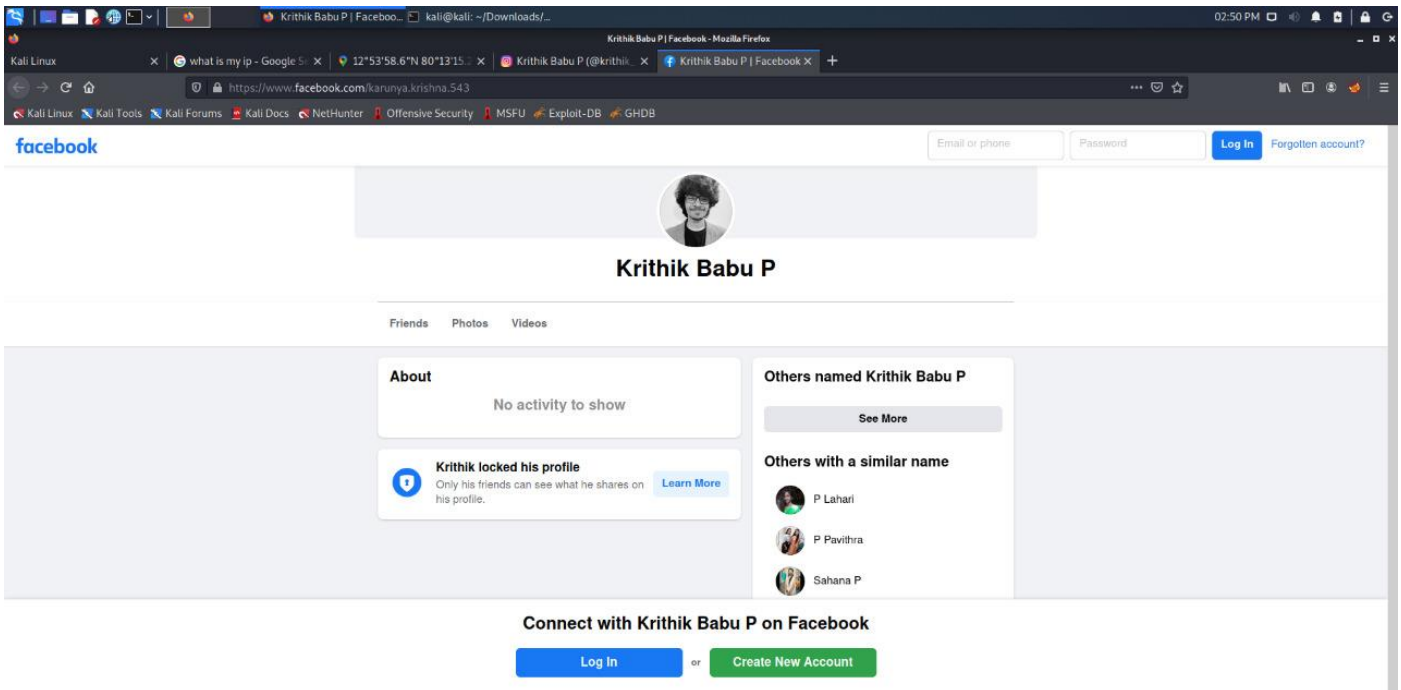
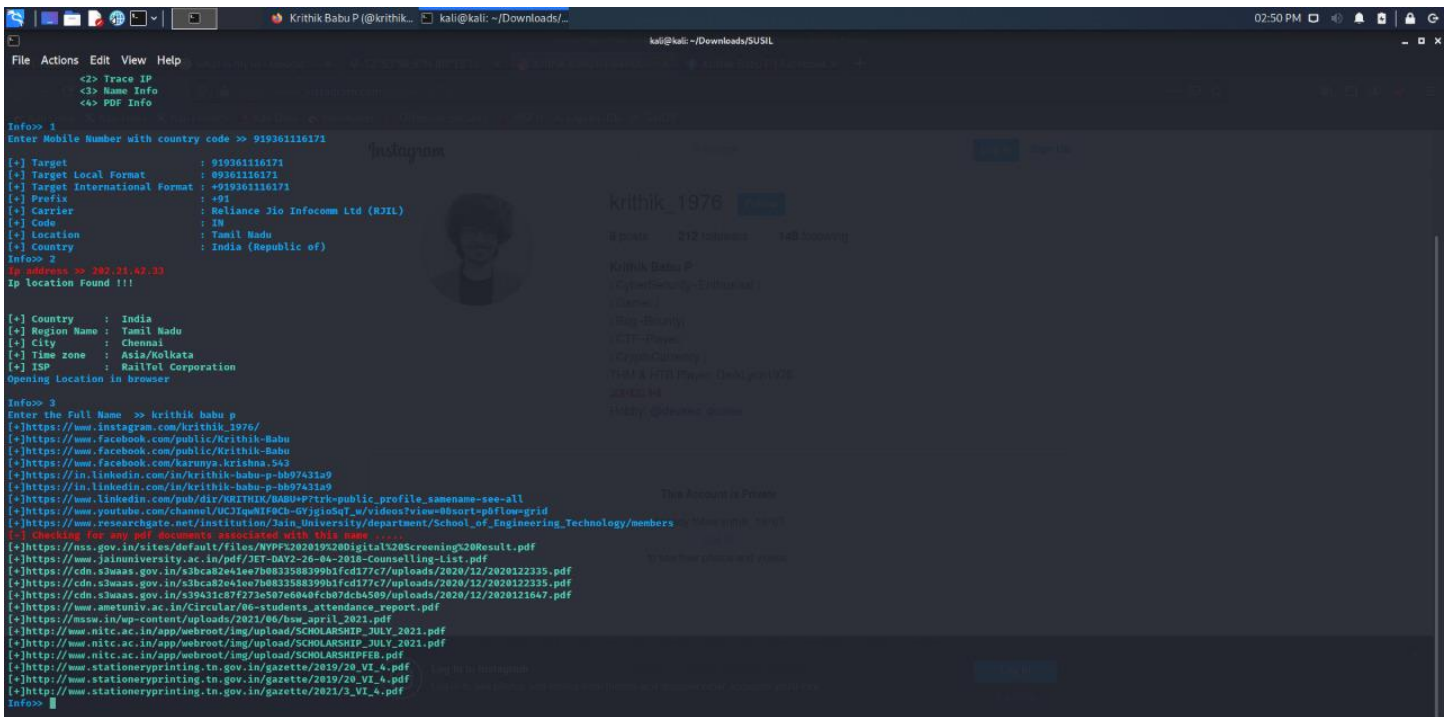
CONCLUSION:

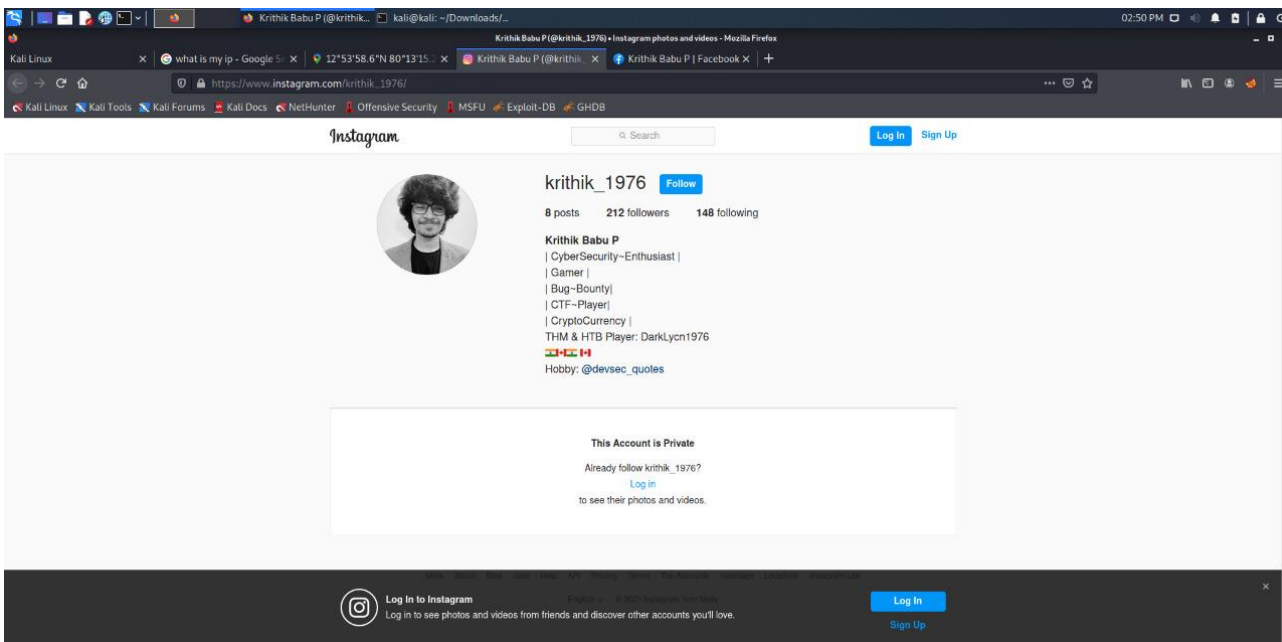
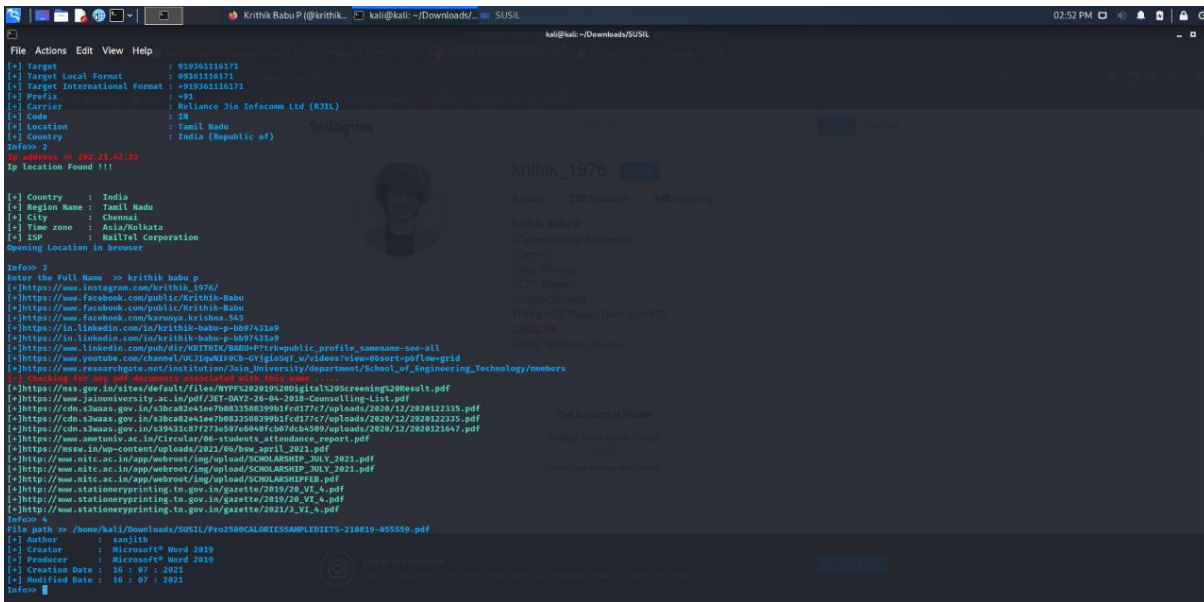
- ▶ **THUS the tool I have been implemented has been executed success fully.**

Screenshots for output









SOURCE CODE:

Info_Is_Wealth.py.py

```
import time
import sys
```

```
from PDFinfo import pdfinfo
from TraceIP import Trace_IP
from NameInfo import Nameinfo
from number import numberinfo
```

```
R = '\033[1;31;20m'
G = '\033[1;32;20m'
C = '\033[1;36;20m'
Y = '\033[1;33;20m'
```

```
print(R+"
_____
print(R+" | | | \ | | ____/ _ \ | _ / ____ | \ \ ____/ / ____ | / \
| | | _ | | | | ")
print(C+" | | | \ | | | | | | | \__ \ \ \ / \ / / | _ | / _ \
| | | | | | _ | | ")
print(Y+" | | | \ | | | | | | | ____ ) | \ v v / | | ____ / ____
\ | | ____ | | | _ | | ")
print(G+""" | ____ | \ | | \ ____/ | ____/ \ / \ / | ____/ _/
\_ \ ____ | | | | |
""")
```

```
print(Y+"
Susil Manoharan
print(Y+"
susil41001@gmail.com
print(Y+"
https://www.linkedin.com/in/susil-kumar-a8844821b/
print(Y+"
https://www.instagram.com/susilmanoharan/

Created By :
Email :
LinkedIN Profile :
Instagram Profile :
```

```
print(G+"""
```

Available Modules


```

print(cyan+"[+] Target International Format : "+ details['international_format'])
print(cyan+"[+] Prefix : "+ details['country_prefix'])
print(cyan+"[+] Carrier : "+ details['carrier'])
print(cyan+"[+] Code : "+ details['country_code'])
print(cyan+"[+] Location : "+ details['location'])
print(cyan+"[+] Country : "+ details['country_name'])

if __name__=="__main__":
    numberinfo()

```

NameInfo.py

```

import requests
import webbrowser
from bs4 import BeautifulSoup
cyan="\033[1;36;20m"
green="\033[1;32;20m"
red="\033[1;31;20m"
Y = '\033[1;33;20m'

def Nameinfo():
    name=input(cyan+"Enter the Full Name >> ")
    headers = {
        'Access-Control-Allow-Origin': '*',
        'Access-Control-Allow-Methods': 'GET',
        'Access-Control-Allow-Headers': 'Content-Type',
        'Access-Control-Max-Age': '3600',
        'User-Agent': 'Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:52.0) Gecko/20100101
Firefox/52.0'
    }
    try:
        url="https://www.google.com/search?q="+name
        response=requests.get(url,headers=headers)

    socialmedia=["instagram","facebook","twitter","linkedin","github","scholar","hackerearth",
    ,"hackerrank","hackerone","tiktok","youtube","books","researchgate","publons","orcid","ma
ps"]

    linklist=[]
    soup=BeautifulSoup(response.content,'html.parser')
    for g in soup.find_all('div', class_='g'):
        anchors = g.find_all('a')
        if 'href' in str(anchors[0]):
            linklist.append(anchors[0]['href'])

    c=0
    foundedlinks=[]
    for i in socialmedia:
        sm=str(i)
        #print(sm)
        for j in linklist:
            if sm in str(j):
                c=c+1
                foundedlinks.append(j)
                print(cyan+"[+] "+j)
    #print(foundedlinks)
    for i in foundedlinks:
        webbrowser.open(i)
    print(red+"[-] Checking for any pdf documents associated with this name ....." )

    url="https://www.google.com/search?q=%22"+name+"%22+filetype%3Apdf&oq=%22"+name+"%22+file
type%3Apdf"
    response=requests.get(url,headers=headers)

```

```

soup=BeautifulSoup(response.content,'html.parser')
f=0
for g in soup.find_all('div', class_='g'):
    links = g.find_all('a')
    if 'href' in str(links[0]):
        print(green+"["+links[0]['href']]
if c == 0:
    print(red+"No Info about this person")
except Exception as e:
    print(e)

```

```

if __name__=="__main__":
    Nameinfo()

```

TraceIP.py

```

import requests
import webbrowser

cyan="\033[1;36;20m"
green="\033[1;32;20m"
red="\033[1;31;20m"
Y = '\033[1;33;20m'

def Trace_IP():
    ipinfo={}
    ip=input(red+"Ip address >> ")
    url="http://ip-api.com/json/"+ip
    r=requests.get(url)
    ipinfo=r.json()
    if ipinfo['status'] == 'success':
        lat=ipinfo['lat']
        lon=ipinfo['lon']
        print(green+"Ip location Found !!!")
        print('\n')
        print('[+] Country      : ',ipinfo['country'])
        print('[+] Region Name : ',ipinfo['regionName'])
        print('[+] City       : ',ipinfo['city'])
        print('[+] Time zone  : ',ipinfo['timezone'])
        print('[+] ISP        : ',ipinfo['isp'])
        print(cyan+"Opening Location in browser")
        mapurl = "https://maps.google.com/maps?q=%s,+%s" % (lat, lon)
        webbrowser.open(mapurl, new=2)
        print('')
    else:
        print(red+"Ip location Not Found !!!")

if __name__=="__main__":
    Trace_IP()

```

PDFinfo.py

```

from PyPDF2 import PdfFileReader
R = '\033[1;31;20m'
G = '\033[1;32;20m'

```

```

C = '\033[1;36;20m'
Y = '\033[1;33;20m'
def pdfinfo():
    filep=input(C+"File path >> ")
    with open(filep, 'rb') as f:
        pdf = PdfFileReader(f)
        info = pdf.getDocumentInfo()
        number_of_pages = pdf.getNumPages()
    try:
        author = info.author
        creator = info.creator
        producer = info.producer
        print(C+"[+] Author      : ",author)
        print(C+"[+] Creator      : ",creator)
        print(C+"[+] Producer     : ",producer)
        cdate=info['/CreationDate']
        cyear=cdate[2:6]
        cmonth=cdate[6:8]
        cd=cdate[8:10]
        print(C+"[+] Creation Date : ",cd,":",cmonth,":",cyear)
        mdate=info['/ModDate']
        myear=cdate[2:6]
        mmonth=cdate[6:8]
        md=cdate[8:10]
        print(C+"[+] Modified Date : ",md,":",mmonth,":",myear)
    except:
        print(R+"[-] Meta data not available")
if __name__=="__main__":
    pdfinfo()

```

