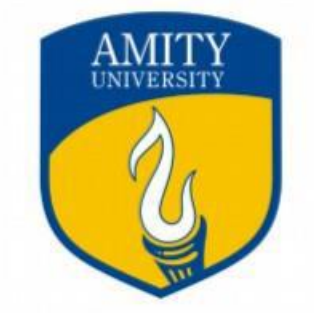
A Project Report

On

WINZIP CRACKER

Submitted to

Amity University Uttar Pradesh



In partial fulfillment of the requirements for the award of the degree

Of

Bachelor of Technology

In

Computer Science and Engineering

SUBMITTED BY:

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ACKNOWLEDGEMENT

I take this opportunity to express my profound sense of gratitude and respect to all those who helped me throughout my project.

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This report is authentic record of my own work which is accomplished by the sincere and active support by all the teachers of my college. I have tried my best to summarize this report.

Rishabh Chauhan

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CERTIFICATE

This is to certify that the project report (B.Tech(CSE)+MBA) entitled "Winzip Cracker" done by Mr. Rishabh Chauhan(A2324713014) is an authentic work carried out by her at Amity School of Engineering and Technology under my guidance. The matter embodied in this project work has not been submitted earlier for the award of any degree or diploma to the best of my knowledge and belief.

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ABSTRACT

The Winzip Cracker is an educational portal that offers tools for cracking or unzipping a password protected .zip file that would stimulate the creation and sharing of knowledge. It is a desktop based application which is maintained by user himself who will look at the details of password if known and hints to calculate the password fast. The Winzip Cracker includes a file choser, and a variety of hint options if user know anything to fast the password extraction.

The Winzip Cracker can be started by running it like a normal java program. User's main work is to enter the location of the .zip file. The user can add hints- starts with, ends with or number of words used in the password. The password can be retrieved easily. The interface is very user-friendly.

The main and only function of this software is to find out the password in an optimized manner.

CHAPTER 1
INTRODUCTION

1.1 Introduction

The project aims at developing a desktop application entitled “WinZip Cracker”. This application primarily helps the user to unzip a password protected .zip file by cracking its password. So the user just needs to visit the website in his laptop or normal computer and then access almost everything which is possible.

The Software is for the automation of Winzip Cracker.

It maintains two levels of phases:

- Pick a file Level
- Process Level
    a) With Hints
    b) Without Hints

The Software includes:

- A Graphical User Interface(GUI)
- A zip4j library to access the password protected zip files.
- Providing hints if user knows anything about password.
- A file choser GUI to pick a file
- A terminal feedback to debug easily

1.2 Purpose

The goal of our system development is to develop and implement the system cost effectively, user friendly software.

1.2.1 Existing system

The first step in system development life cycle is the identification of need of change to improve or enhance an existing system. There don't exits any software to crack a password protected .zip file.

1.2.2 Proposed System

The drawback of the existing system is that it is very difficult to access and operate it. It is less accurate and to keep the data in case files for future reference because it may get destroyed. Moreover it is very difficult to retrieve data. Redundancy of data may occur and this may lead to the inconsistency. The manual system is also time-consuming.

The proposed system is very easy to operate. Speed and accuracy are the main advantages of proposed system. The data are stored in the computer's secondary memories like hard disk, etc. it can be easily receive and used at any time. The proposed system will easily handle all the data and the work done by the existing systems. The proposed systems eliminate the drawbacks of the existing system to a great extent and it provides tight security to data.

Goals of proposed system:

1. Planned approach towards working- The working in the organization will be well planned and organized. The data will be stored properly in data stores, which will help in retrieval of information as well as its storage.
2. Accuracy- The level of accuracy in the proposed system will be higher. All operation would be done correctly and it ensures that whatever information is coming from the center is accurate.
3. Reliability- The reliability of the proposed system will be high due to the above stated reasons. The reason for the increased reliability of the system is that now there would be proper storage of information.

4. Immediate Retrieval of password- The main objective of proposed system is to provide for a quick and efficient retrieval of password.
5. Easy to Operate: - The system should be easy to operate and should be such that it can be developed within a short period of time and fit in the limited budget of the user.

1.3 Objective

The main objective of the WinZip Cracker is to utilze the protected the .zip files which can help in providing a shared platform for better education. We can easily use this software on any desktop for accessing .zip files The scope of the project is very wide. This project is very flexible and can be easily expandable.

The system is very user friendly and it is anticipated that functions of the system will be easily accessed by end users.

Winzip Cracker provides the following benefits over traditional system:

- Enhancement:
- Automation:
- Accuracy:
- User-Friendly:
- Availability:
- Maintenance Cost:
- Reduce the cost of maintenance.

1.4 Future Scope

In future we can add more features to the WinZip Cracker to make it more effective. We could add features like supporting .rar files, improving algorithms etc.

CHAPTER 2
MATERIALS AND METHODS

2.1 Technology

- Java
- Zip4j Library

2.2 Software

- Java NetBeans IDE 6.5
- JDK 1.6 or higher
- Windows 8.1

2.3 Hardware

- 4 GB RAM
-

2.4 Advantages

- It is flexible
- It is secure
- It is reliable
- It is cost effective
- It is user friendly

2.5 Salient Features

- User-friendly interface
- Fast processing and hints
- Highly flexible, scalable and customizable.

2.6 About JAVA

Java language was developed by James Gosling and his team at sun micro systems and released formally in 1995. Its former name is oak. Java Development Kit 1.0 was released in 1996. To popularize java and is freely available on Internet.

2.7 Overview of JAVA

Java is loosely based on C++ syntax. The Object-Oriented Structure of java is midway between an interpreted and a compiled language. The java compiler into Byte Codes, are secure and portable across different platforms, compiles Java programs. These byte codes are essentially instructions encapsulated in single type, to what is known as a java virtual machine (JVM), which resides in standard browser. JVM verifies these byte codes when downloaded by the browser for integrity. Java virtual machine is available for almost all operating systems. Java virtual machine converts these byte codes into machine specific instructions at runtime.

2.8 Features of JAVA

Java is object-oriented language and supports encapsulation, inheritance, polymorphism and dynamic binding, but does not support multiple inheritances. Everything in java is an object except some primitive data types.

- Java is portable architecture neutral that is java programs once compiled can be executed on any machine that is enabled.
- Java is distributed in its approach and used for Internet programming.
- Java is robust, secured, high performing and dynamic in nature.
- Java supports multithreading. Therefore different parts of the program can be executed at the same time.

2.9 NetBeans 6.5 Software

2.9.1 Module System

The modular nature of a NetBeans Platform application gives you the power to meet complex requirements by combining several small, simple, and easily tested modules encapsulating coarsely-grained application features.

Powerful versioning support helps give you confidence that your modules will work together, while strict control over the public APIs your modules expose will help you create a more flexible application that's easier to maintain.

Since your application uses standard NetBeans Platform modules you'll be able to integrate third-party modules or develop your own.

2.9.2 Pluggability, Service Infrastructure, and File System

End users of the application benefit from pluggable applications because these enable them to install modules into their running applications.

NetBeans modules can be installed, uninstalled, activated, and deactivated at runtime, thanks to the runtime container.

The NetBeans Platform provides an infrastructure for registering and retrieving service implementations, enabling you to minimize direct dependencies between individual modules and enabling a loosely coupled architecture (high cohesion and low coupling).

2.9.3 Window System, Standardized UI Toolkit, and Advanced Data-Oriented Components

Most serious applications need more than one window. Coding good interaction between multiple windows is not a trivial task. The NetBeans window system lets you maximize/minimize, dock/undock, and drag-and-drop windows, without you providing any code at all.

2.9.4 Miscellaneous Features, Documentation, and Tooling Support

The NetBeans IDE, which is the software development kit (SDK) of the NetBeans Platform, provides many templates and tools, such as the award winning Matisse GUI Builder that enables you to very easily design your application's layout.

The community is helpful and diverse, while a vast library of blogs, books, tutorials, and training materials are continually being developed and updated in multiple languages by many different people around the world.

Framework is designed to fulfill the following objectives:

- To provide a consistent object-oriented programming environment whether object code is stored and executed locally, executed locally but Internet-distributed, or executed remotely.
- To provide a code-execution environment that minimizes software deployment and versioning conflicts.
- To provide a code-execution environment that guarantees safe execution of code, including code created by an unknown or semi-trusted third party.
- To provide a code-execution environment that eliminates the performance problems of scripted or interpreted environments.

2.10 Methodology Adopted

I followed a 5-Step Development Methodology to develop the "Student Portal". The 5-Step Development Methodology that I adopted is listed below:

1. Study and Learning: Learning java and studying all software to be used like web server and database.

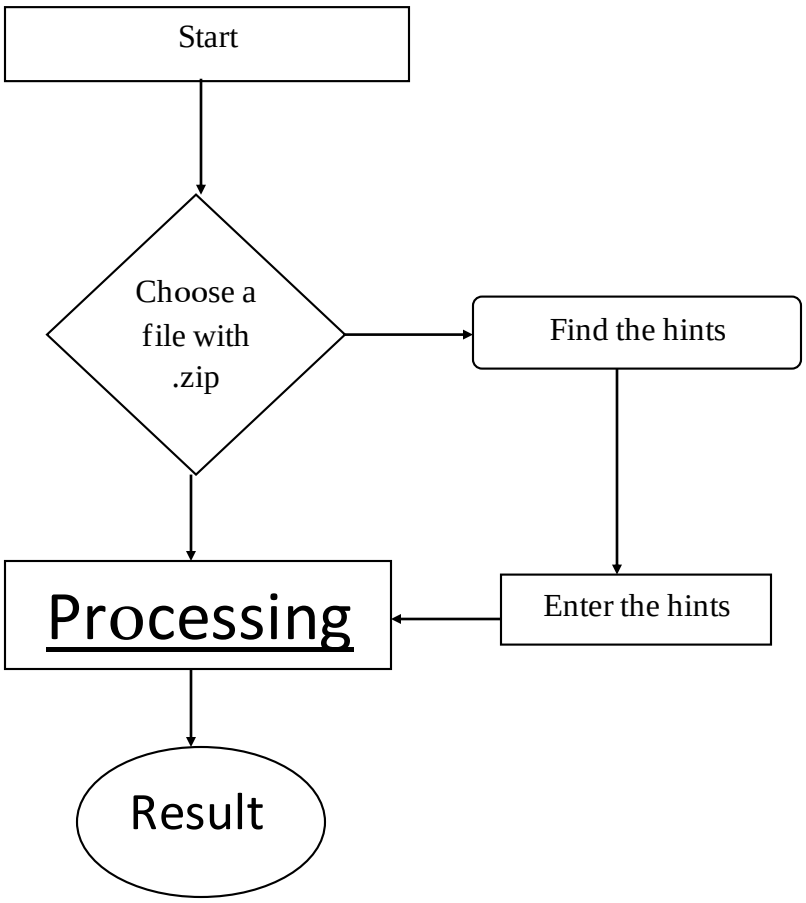
2. Layout: Scoping out the details and determining what type of design, programming, function, etc is best suited for the particular solution for Student Portal development needs. Then refining and documenting of the design was carried out.

3. Development: Once the specs were detailed, I began the process to build a professional “Student Portal”. During this phase the faculty/guide monitored the development through work in-progress reports (weekly progress reports).

4. Implementation: This is when the site went through tweaking and testing. I refined the portal based on the testing and finalized the portal.

5. Demo: The final step of the methodology that I plan to follow will be to give a demo of the fully developed and tested “Student Portal”.

3.1 Data Flow Diagram



CHAPTER 4

RESULTS AND DISCUSSION

The WINZIP CRACKER is a great improvement over other the tricks which are used to crack a .zip file . The WinZip Cracker was thoroughly checked and tested with dummy .zip file and thus is found to be very reliable for the end user.

4.1 Screen Shots

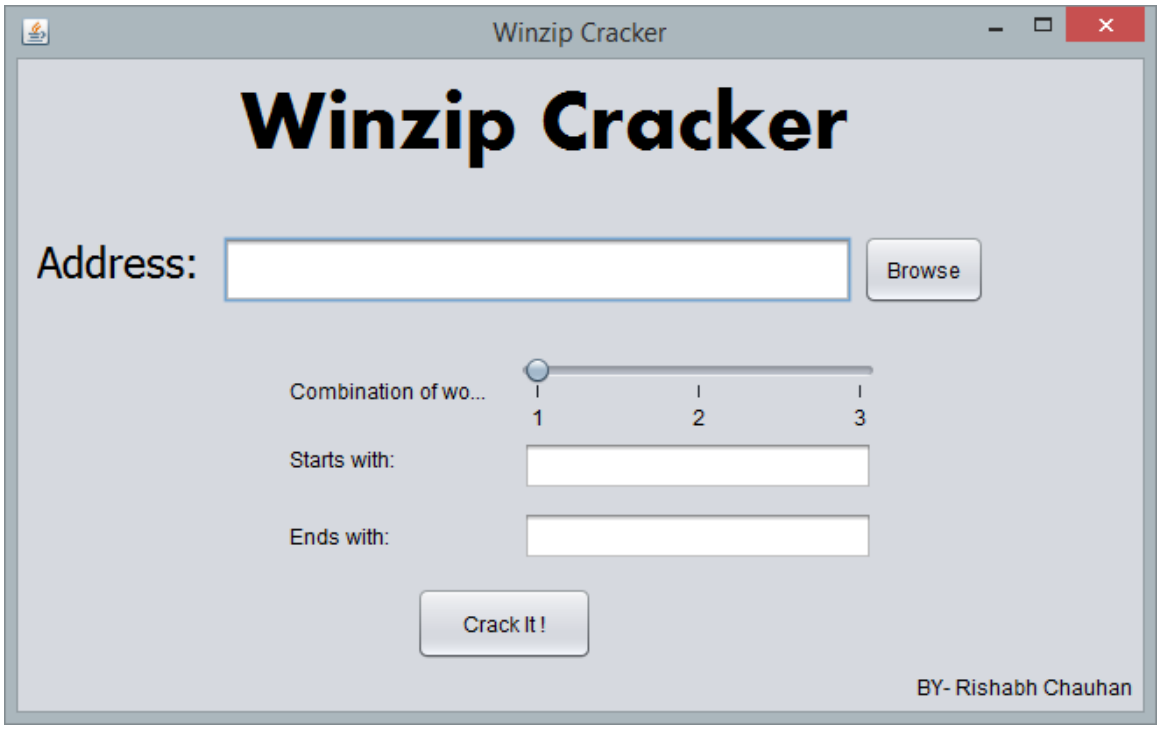


Fig 1.1 WinZip Cracker GUI

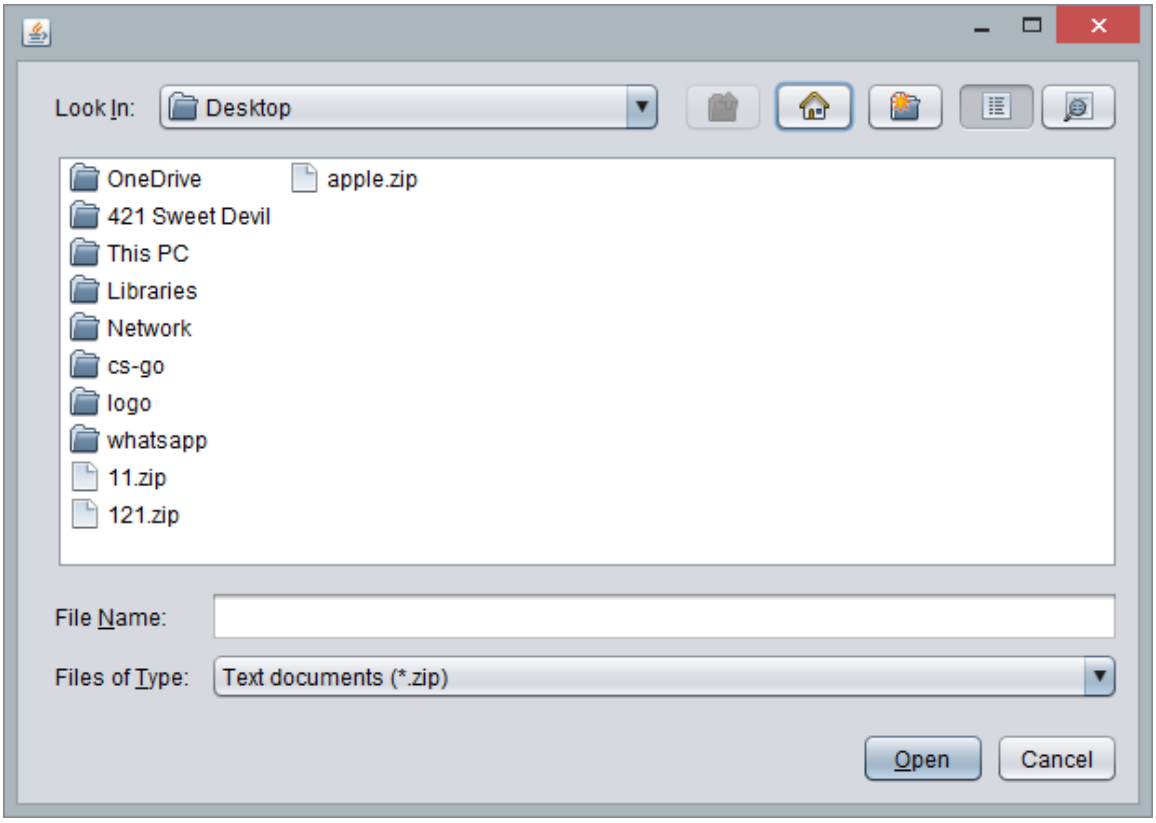


Fig 1.2 File Chooser GUI

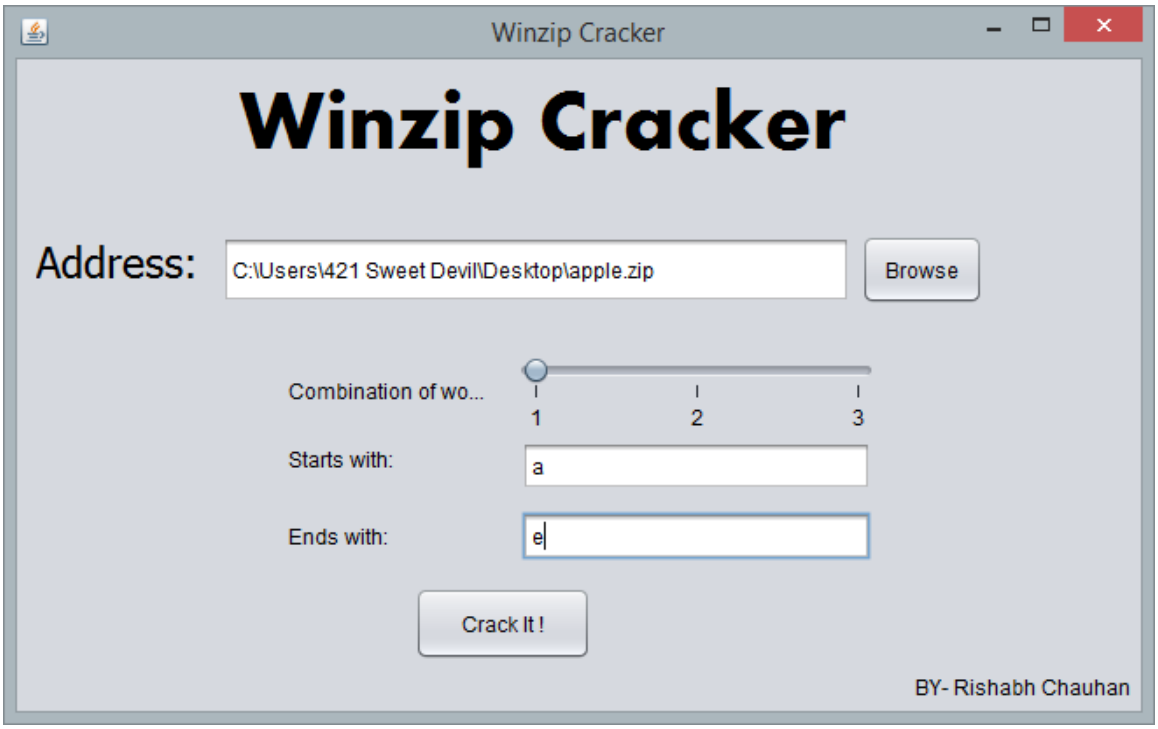


Fig 1.3 GUI filed with hints

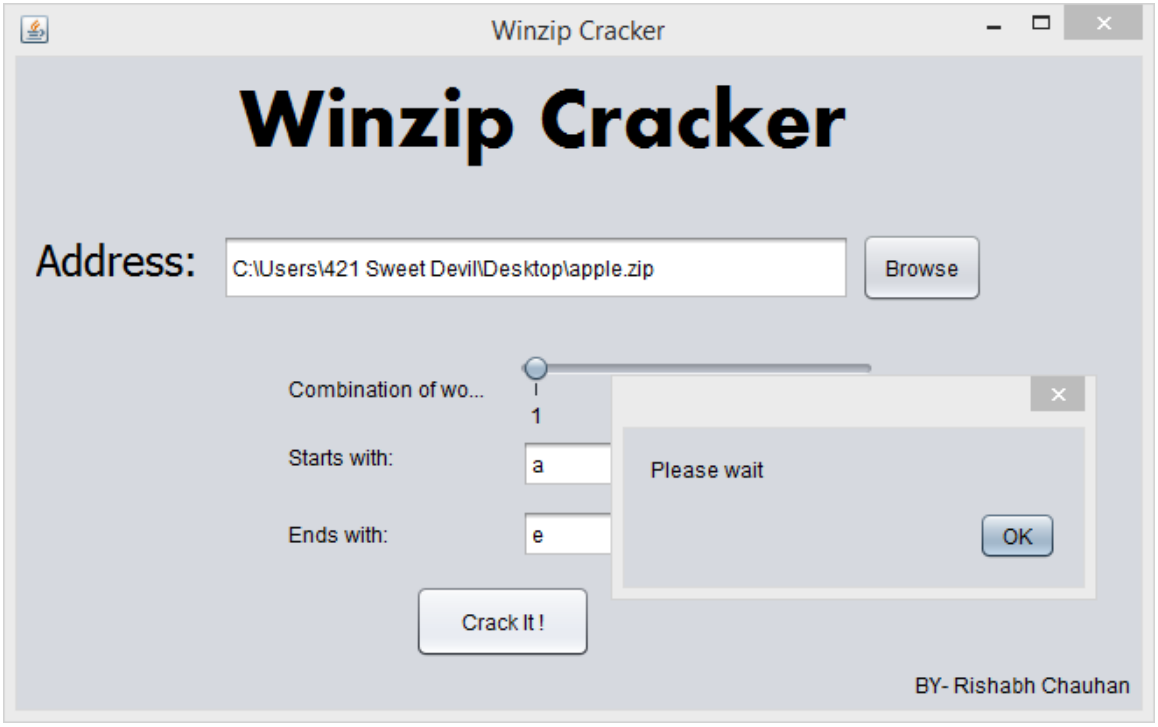


Fig 1.4 GUI addressing us to wait while calculation is in progress

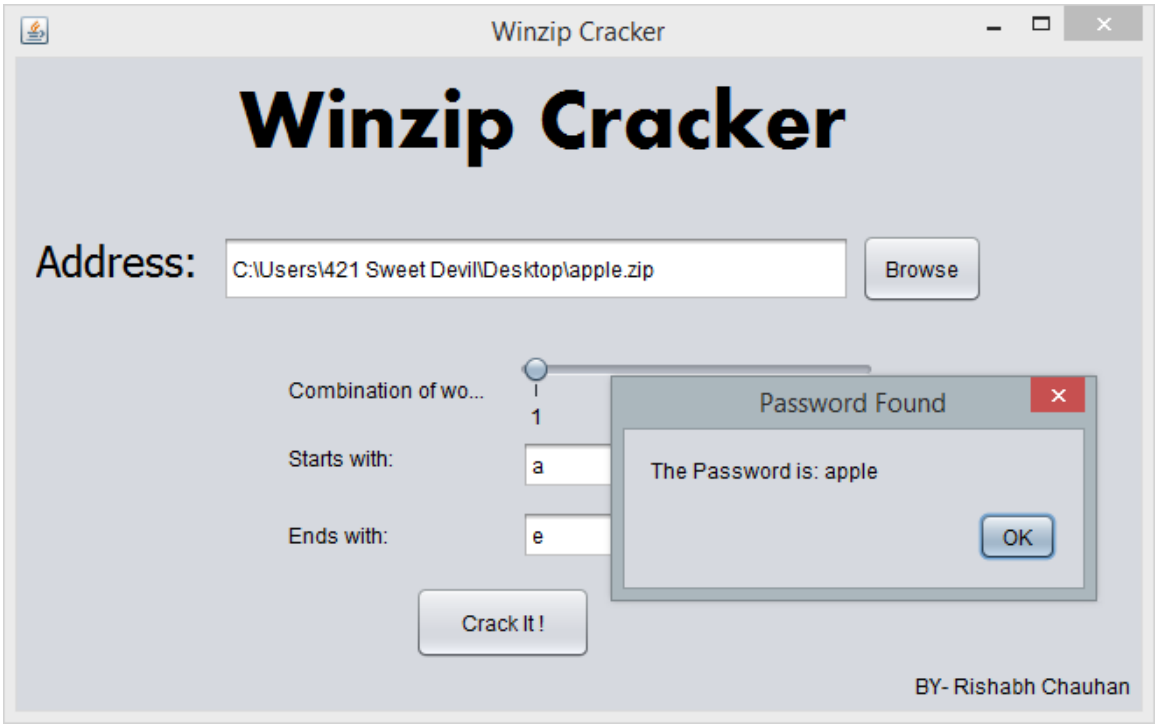


Fig 1.5 The password is found and it is popped up

CHAPTER 5

CONCLUSION

The WINZIP CRACKER is a great improvement over the tricks used to unzip a password protected .zip file without the password. This software was thoroughly checked and tested with dummy data and thus is found to be very reliable for the end user. They can easily access their data without any trouble.

The project WINZIP CRACKER is for finding a way to unlock the password protected .zip file. The software takes care of all the requirements of everything from libraries to format support to logics needed to unlock the file. It is capable to provide easy and effective way to fine the password in a short span of time

End user can even pick a file using a GUI based code and the use hint option to lower the processing/calculation by an adequate amount of time which would have been needed otherwise.

- https://en.wikipedia.org/wiki/WinZip
- The Book of WinZip 1st Edition by Jerry Lee Ford Jr. (Author) **ISBN-10:** 1886411751,**ISBN-13:** 978-1886411753
- http://www.lingala.net/zip4j/