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## STEGANOGRAPHY-DATA HIDING PROCESS

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**Abstract:** Java supports many important features- the most important being platform independence. But, one of the drawbacks is that coding in java is very lengthy. JAVA is a very versatile and widely used language it also supports GUI, but to create a single form, a programmer has to write several hundred lines of code.

**Keywords:** Visual Cryptography (VC), Halftone, Dithering



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## INTRODUCTION

As we all know that, JAVA is a very versatile and widely used language endowed with features such as Platform Independence, OOPS, Security, Portability, and it also supports GUI, but to create a single form, a programmer has to write several hundred lines of code. So, intended to overcome this problem we have come up with the idea to develop application for java.

The objective of our project is to create a "A Data Hiding Software". Our project aims hiding information inside another media with the intention of giving the impression that no hidden data is present

And this is what our project is – "Steganography"

### Analysis of stenography:

#### Steganography

Steganography is a practical science of hiding information inside another media with the intention of giving the impression that no hidden data is present. The goal of steganography is to embed information in a cover image using modifications that are undetectable.

Most techniques produce stego-images that are perceptually identical to the cover images but exhibit statistical irregularities in them from cover image. Steganography allows for the concealment of files and messages within other file. By using steganography techniques observes cannot tell the different between encoded images and the original one.

In stenographic application, there are two levels of security. The first is not to allow an observer to detect the presence of a secret message. The other is not to allow an attacker to read the original plain message after detecting the presence of secret information. The main objectives of the security or stenographic algorithm should be to provide confidentiality, data integrity and authentication. Steganography has wide array of uses. For example, it can be used for digital water marking, e-commerce and transport of sensitive data.

### CONCEPT:-

#### What is Wizard?

When most people think of a wizard, they think of an old man with magical powers. This, as with many other computer definitions, has no correlation with the technical term. In computer terminology, a wizard is a part of a program that guides you through certain steps. For example, a wizard in Microsoft Word would help you create and format a new document according to your needs. This is helpful when creating a résumé, outline, invoice, etc. Some other examples

of wizards are the Finale 2000 wizard, which helps you create a new music composition with your desired instruments, and the PowerPoint

Wizard, which helps you, set up a presentation using a certain theme. Basically, a wizard acts as a guide for creating a new document in a software program. Though wizards can be helpful, sometimes they can be more of a hassle than a help for experienced users. Some users would rather just create a new document from scratch, without using a wizard. This is because wizards typically don't offer as much customization as an experienced user may want. Finally, be sure not to confuse a "wizard" with a "template." A template is a pre-formatted document that has already been created, whereas a wizard is a step-by-step guide that helps you create your own document.

A wizard is an interactive computer program which acts as an interface to lead a user through a complex task, using step-by-step dialogs. Keeping the above concept in mind, THE CODE GENERATOR is aimed at developing a wizard for Java, in Java.[2]

#### **WORKING:-**

The CODE GENERATOR provides the user with code for the specified form as per his requirements.

It is designed to automatically generate forms that contain individual bound controls and procedures used to manage information derived from database tables and queries. You can use the Data Form Wizard to create either single query forms to manage the data from a single table or simple query, or Master/Detail type forms used to manage more complex one-to-many data relationships. If you are using a control, you can also create a grid or datasheet type form. Use the Data Form Wizard to:

1. Rapidly build forms with controls bound to a data source.
2. data-based forms.

Since you can create four types of forms, some steps of the Simple data Form Wizard are different for each type.

The CODE GENERATOR is designed to generate the code for four types of forms namely Simple Form, Master Detailed Form, Grid Form, Graph Form. The graph form may be of the type like Pie Graph, Line Graph, Bar Graph.

The generated code is compiled and runned to generate the respective forms as the output.

SCOPE:-

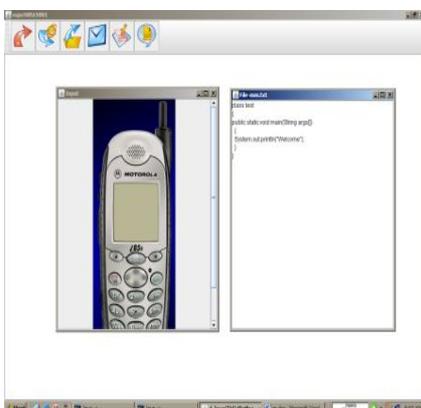
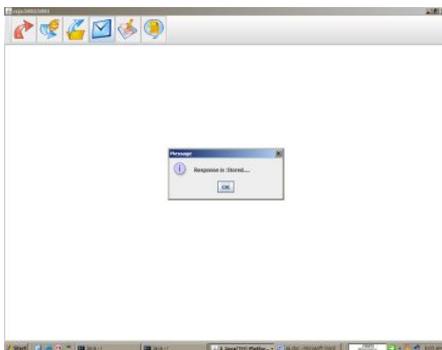
The scope of the project is to limit unauthorized access and provide better security during message transmission. To meet the requirements, We use the simple and basic approach of steganography . In this project, the proposed approach finds the suitable algorithm for embedding the data in an image using steganography which provides the better security pattern for sending messages through a network.

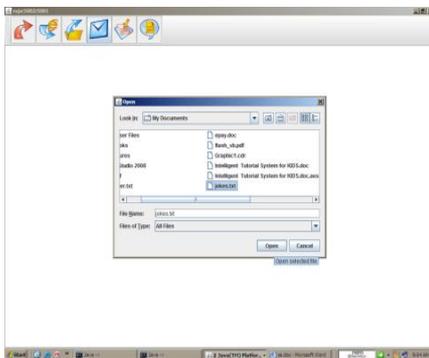
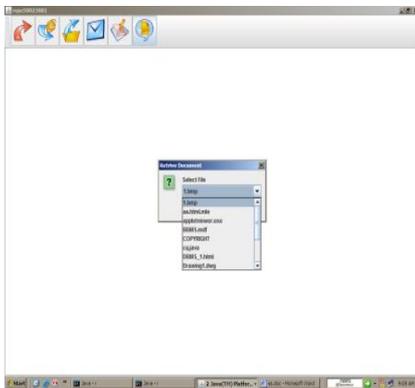
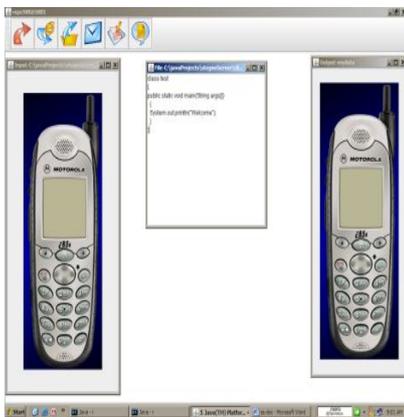
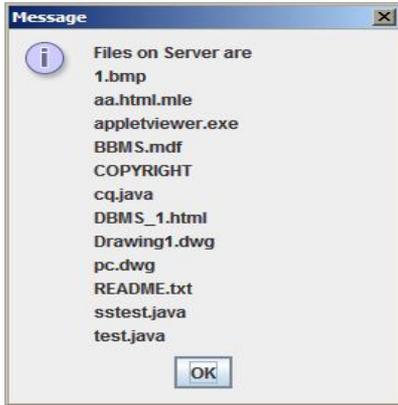
### PROBLEM DEFINITION:

With the development of internet, the requirement of information security in organization is undergoing changes. Information hiding technique has been widely researched by more and more researcher.

Steganography is an important branch of information hiding technology, and the purpose lies in that safe and secret communication but cannot easily be observed by others. We have used Least Significant Bit embedding for hiding message in high colour depth digital images. The advantages of LSB embedding is its simplicity .The underline principle behind this technique is to embed the bits of the message directly in the least significant bit plane of the cover image.

The result reported in our proposed work indicates that even when presented original cover image it is not possible to identify the stago image from the original.





## CONCLUSION:

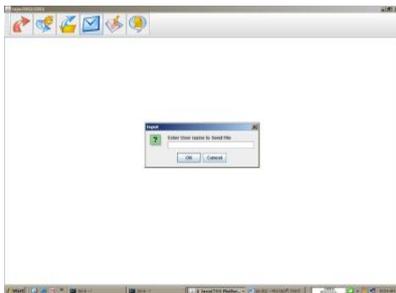
Java supports many important features- the most important being platform independence. But, one of the drawbacks is that coding in java is very lengthy.

So, developers require more time to develop any java application. In order to overcome this problem, we have developed software that implements a java wizard that generates code for various forms.

It reduces the 30% time for development of the application by creating various types of forms.

Efforts are being made to have client interaction and include a dynamic nature of goals in the project development phase

We with that our efforts will provide a backbone structure for further enhancements of the system.



## Future Enhancements:-

- Development of standalone project into network applications by extending codes.
- Graphical representation can be enhanced into 3D views to project the data.
- Core java applications support for applet based programs.
- Run time input by implementing command line arguments.
- Professional development of system software by employing project deployment.

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