

# ENIGMA MESSENGER



## CS 101-Spring 2015 Group Project

### Group Members:

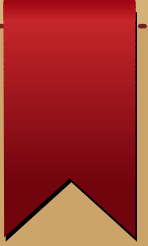
- Lele Ashwin Sanjay (group leader) -14D070013
- Surya Pratap Singh -140040033
- Bole Swapnil Sanjay -140070008
- Sahare Apoorv Yashwant -140070018



# PROBLEM STATEMENT

- A message which is to be transmitted secretly is given as input in notepad and the encoder program converts it into a ciphertext.
- This ciphertext is hidden in an image.
- After sending it through a messaging client the receiver opens the image in decoder program.
- The original plaintext is obtained back on execution of decoder.

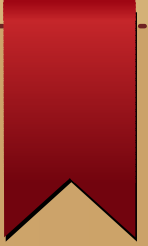
# Demonstration



{Video}



# CHALLENGES



- Learning Visual Basics for graphic purpose.
- Linking VB Studio with Simple Codeblocks.
- Implementing RSA and Base64 algorithm.
- Implementing actual steganography for any arbitrary image.



# FEATURES ADDED



- Implemented primitive version of RSA algorithm working for specific test cases restricted due to hardware/software restriction of the machine(not committed in SRS)
- Implemented Base64 algorithm encoder to increase complexity of the encoding path. This was not committed in SRS.



# FUTURE DIRECTIONS

- Steganography may be implemented for set of images selected randomly.
- Base64 algorithm along with RSA(in sequence) and AES can be added to make the code more complex.
- This project can lead to a mobile application integrated with Facebook, Whatsapp or similar messenger software.