

## IMAGE SECURITY SYSTEM FOR ARMY, POLICE & SECURE COMMUNICATION

### IMAGE ENCRYPTION & DECRYPTION USING TRIPLE DES

#### LOAD LIBRARIES

```
In [1]: %pylab inline
import matplotlib.pyplot as plt
import matplotlib.image as mpimg
import io
!pip install pyDes
from pyDes import *
```

```
Populating the interactive namespace from numpy and matplotlib
Collecting pyDes
  Downloading https://files.pythonhosted.org/packages/92/5e/0075a35ea5d307a18
2b0963900298b209ea2f363ccdd5a27e8cb04c58410/pyDes-2.0.1.tar.gz
Building wheels for collected packages: pyDes
  Building wheel for pyDes (setup.py) ... done
  Created wheel for pyDes: filename=pyDes-2.0.1-py2.py3-none-any.whl size=954
8 sha256=0c0e84d0cbb3ca775dcc5cd1e16b3b8392b29ed5ac71063e5b9a304f853f3bdc
  Stored in directory: /root/.cache/pip/wheels/8d/ff/d6/b38861c6a8fb5807fcd62
e520d4d018caca96c8c3c645e47ec
Successfully built pyDes
Installing collected packages: pyDes
Successfully installed pyDes-2.0.1
```

#### DEFINE FUNCTION

```
In [2]: # Function to Display Image
def imgdis(path):
    """
    Function to display an image.
    Parameter : Path of image file
    """
    img = mpimg.imread(path)
    imgplot = plt.imshow(img)
    plt.show()
```

#### ENCRYPTION USING TRIPLE DES

```
In [3]: # Function to Encrypt an File with Triple DES
def encrypt(key, path, output = 'Encrypted'):
    """
    Function to Encrypt an File with Triple DES

    Parameters : path, key, output;

    Key : Takes a Key for the Encryption Process.
    Path : Takes Absolute or Relative Path of File as Input.
    Output : Takes Absolute or Relative Path of File as Output.

    Returns : An Encrypted File.
    """
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

WAIT !!!

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Project Code is longer it involves many step for Encryption and Decryption for Image.

It's Top Class Projects.

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**Mail me at vatshayan007@gmail.com for Full Project Code with Project Report and PPT**

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In [ ]: