MATLAB Implementation

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Course Code: Image Processing and Analysis

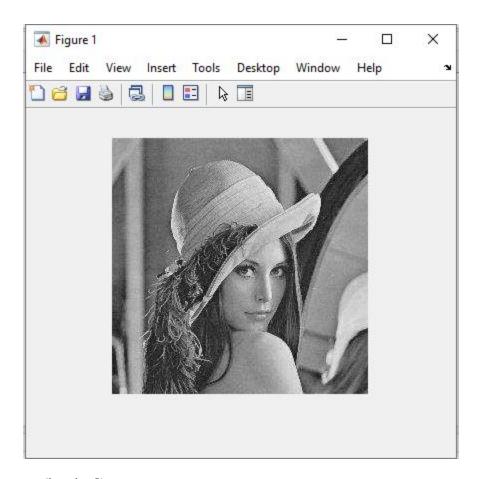
Muhammad Saad Rashad

25nd February, 2022

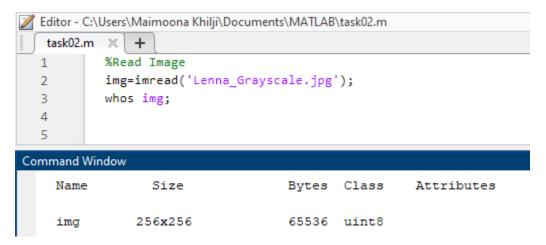
MATLAB Implementation

Task 1

Implement conversion on lena grayscale image with data class uinit8 and convert it to double, then scale the double to scaled double with min 0.2 and max 0.4.



Reading Images (in uint8):



Converting it to double:

```
Editor - C:\Users\Maimoona Khilji\Documents\MATLAB\task02.m
   task02.m × +
  4
  5
           %convert it to double
           imgdouble=im2double(img);
  6
  7
           whos imgdouble;
Command Window
  >> task02
    Name
                 Size
                                   Bytes Class
                                                    Attributes
               256x256
    img
                                   65536 uint8
    Name
                       Size
                                          Bytes Class
                                                            Attributes
    imgdouble
                    256x256
                                         524288 double
```

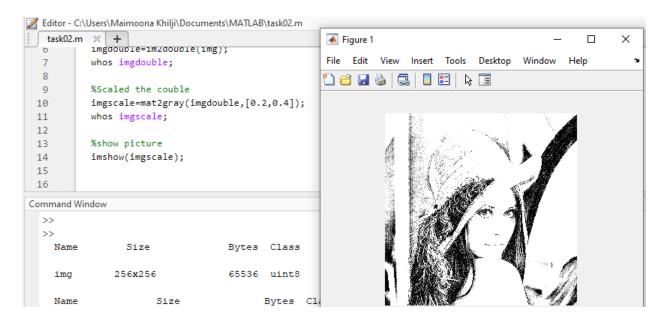
Scaled the double with min max value:

```
Editor - C:\Users\Maimoona Khilji\Documents\MATLAB\task02.m
   task02.m × +
   2
           img=imread('Lenna_Grayscale.jpg');
   3
           whos img;
   4
           %convert it to double
   5
   6
           imgdouble=im2double(img);
           whos imgdouble;
   7
   8
           %Scaled the couble
   9
           imgscale=mat2gray(imgdouble,[0.2,0.4]);
  10
 11
           whos imgscale;
Command Window
                                          Bytes Class
     Name
                      Size
                                                            Attributes
     imgscale
                    256x256
                                         524288 double
```

Task2:

Take the same converted image and convert its data class to binary and display the image before and after each conversion.

Show image:



Covert the data class to binary and then show:

