Lab Report-01

Course title: Digital Image Processing Laboratory
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Experiment Name: Taking an image as input and output of the image.

Objective: The objective of this experiment is to develop and implement a digital image processing technique that takes an image as input, processes it through various algorithms or transformations, and produces an output image with enhanced or modified features. The goal is to understand and apply key image processing concepts such as filtering, edge detection, noise reduction, or image enhancement, and to evaluate the effectiveness of these techniques in improving the visual quality or extracting useful information from the input image.

Source Code:

Python code:

```
from google.colab import drive
from PIL import Image
from IPython.display import display
drive.mount("/content/drive", force_remount=True)

# Navigate to your image
img_path = '/content/drive/MyDrive/FruitBasket.PNG'

# Read the image
img = Image.open(img_path)

# Display the image
display(img)
```

MATLAB code:

```
% Specify the file name of the image
filename= 'FruitBasket.PNG';

% Read the image into a matrix
img=imread(filename);

% Display the image
imshow(img);
```

Input Image:

Output Image:

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