# CS 6327 Video Analytics Assignment 1

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Due - Jan 27th, 2016

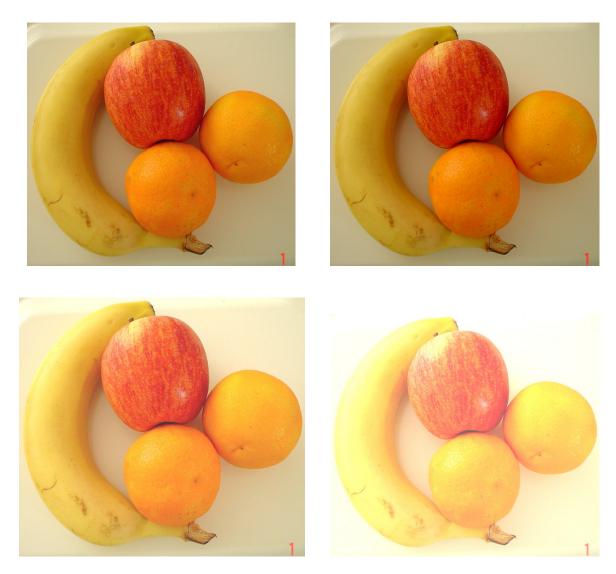
Only submission on eLearning is accepted.

### **Description:**

Given an image with various fruits (Fig. 1), please:

1. Generate three different images by adjusting the brightness of each pixel in the original image by +10, +50, +100.

#### Answer:



a) regular Image

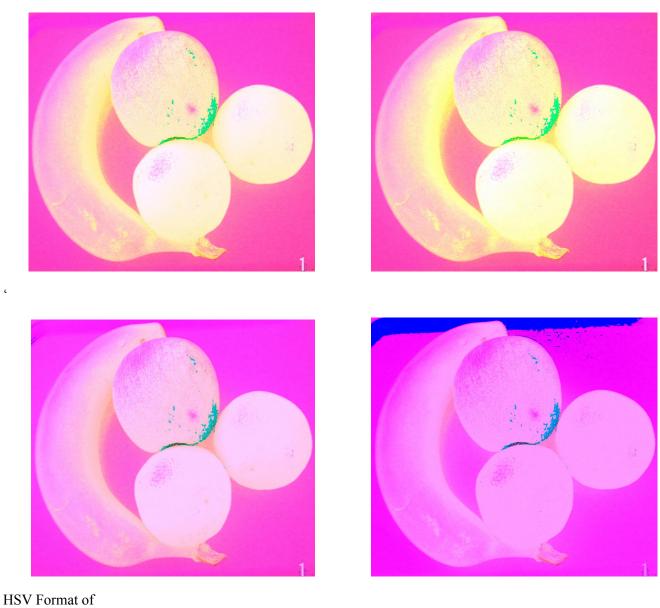
b) +10 Bright

c) +50 Bright

b) +100 Bright

## 2. Convert each image from RGB to HSV color space.

## Answer:



a) regular Image

b) +10 Bright

c) +50 Bright

b) +100 Bright

- 3. Find the "oranges" in each image using both of the following methods and mark the orange area as white in the dark background. Methods to be used:
  - Object detection based on color in RGB domain
  - Object detection based on color in HSV domain

Answer:

a.

