

International Islamic University Chittagong.

Department of Computer Science and Engineering.



Course Code: CSE-4876

Course Title: Pattern Recognition & Image Processing

Submitted By:

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Section: 8AF

Submitted To:

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Lab No: 01

Lab Title:

Install python

- Some sample image processing problems
- Read an image and display
- Increase the brightness of the image
- Decrease the brightness of the image

Methodology:

```
▶ from PIL import Image, ImageEnhance
    import matplotlib.pyplot as plt

    # Display original image
    image = Image.open("/content/pizza.png")
    plt.figure(figsize=(8, 8))
    plt.subplot(1, 3, 1)
    plt.title("Original Image")
    plt.imshow(image)
    plt.axis('off')

    # Enhance brightness
    enhancer = ImageEnhance.Brightness(image)
    enhanced_img = enhancer.enhance(1.5)
    plt.subplot(1, 3, 2)
    plt.title("Increased Brightness")
    plt.imshow(enhanced_img)
    plt.axis('off')

    # Decrease brightness
    factor = 0.3 # Decrease brightness
    dark_img = enhancer.enhance(factor)
    plt.subplot(1, 3, 3)
    plt.title("Decreased Brightness")
    plt.imshow(dark_img)
    plt.axis('off')

    plt.show()
```



Original Image



Increased Brightness



Decreased Brightness



