

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 pytho

- 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



