

# DSA0210 Computer Vision with Open CV LAB Experiments

Experiment- 12: Perform Edge detection using canny method

## PROGRAM:

```
import cv2

import matplotlib.pyplot as plt

# Read the input image
img = cv2.imread(r"D:\New Folder\input.jpeg")

# Check if image is loaded
if img is None:
    raise FileNotFoundError("Image not found. Check the file path.")

# Convert image to grayscale
gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)

# Apply Canny edge detection
edges = cv2.Canny(gray, 100, 200)

# Display images
plt.figure(figsize=(8, 4))

plt.subplot(1, 2, 1)
plt.imshow(cv2.cvtColor(img, cv2.COLOR_BGR2RGB))
plt.title("Original Image")
plt.axis("off")

plt.subplot(1, 2, 2)
```

```
plt.imshow(edges, cmap="gray")
plt.title("Canny Edge Detection")
plt.axis("off")
```

```
plt.tight_layout()
```

```
plt.show()
```

**OUTPUT:**

