A screenshot of a computer

Description automatically generated

Sample code

# Import necessary libraries

import cv2

import numpy as np

from google.colab.patches import cv2\_imshow  # Special function for displaying images in Colab

# Create a blank white image (300x300 pixels, 3 color channels)

image = np.ones((300, 300, 3), dtype=np.uint8) \* 255  # A white image

# Draw a blue line from top-left to bottom-right

cv2.line(image, (0, 0), (299, 299), (255, 0, 0), 5)  # (BGR color, thickness)

# Draw a green rectangle

cv2.rectangle(image, (50, 50), (250, 250), (0, 255, 0), 3)  # (Top-left, bottom-right, BGR color, thickness)

# Draw a red circle

cv2.circle(image, (150, 150), 50, (0, 0, 255), -1)  # (Center, radius, BGR color, -1 for filled circle)

# Add text to the image

cv2.putText(image, 'OpenCV', (70, 280), cv2.FONT\_HERSHEY\_SIMPLEX, 1, (0, 0, 0), 2)  # (Text, position, font, scale, color, thickness)

# Display the image using OpenCV's cv2\_imshow (Colab specific)

cv2\_imshow(image)

# Save the generated image to a file (optional)

cv2.imwrite('generated\_image.jpg', image)