1.What does RGBA stand for?

RGBA stands for Red, Green, Blue, and Alpha. It's a color model used to represent colors in digital images. The alpha channel (A) represents the transparency or opacity of the color.

2. From the Pillow module, how do you get the RGBA value of any images?

from PIL import Image

# Open an image file

img = Image.open("example.png")

# Get the RGBA value at a specific pixel (x, y)

rgba = img.getpixel((x, y))

3. What is a box tuple, and how does it work?

A box tuple is a tuple that defines a rectangular region in the form of (left, upper, right, lower), where "left" represents the x-coordinate of the left edge, "upper" represents the y-coordinate of the upper edge, "right" represents the x-coordinate of the right edge, and "lower" represents the y-coordinate of the lower edge. It defines a rectangular box within an image.

4. Use your image and load in notebook then, How can you find out the width and height of an Image object?

from PIL import Image

# Open an image file

img = Image.open("example.png")

# Get the width and height of the image

width, height = img.size

print(f"Width: {width}, Height: {height}")

5. What method would you call to get Image object for a 100×100 image, excluding the lower-left quarter of it?

from PIL import Image

# Open an image file

img = Image.open("example.png")

# Crop a 100x100 region starting from the upper-left corner

region = img.crop((0, 0, 100, 100))

6. After making changes to an Image object, how could you save it as an image file?

from PIL import Image

# Open an image file

img = Image.open("example.png")

# Perform some operations on the image

# Save the modified image to a file

img.save("modified\_image.png")

7. What module contains Pillow’s shape-drawing code?

from PIL import ImageDraw

8. Image objects do not have drawing methods. What kind of object does? How do you get this kind of object?

from PIL import Image, ImageDraw

# Open an image file

img = Image.open("example.png")

# Create a drawing object

draw = ImageDraw.Draw(img)