1. What does RGBA stand for? **Red Green Blue Alpha**

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

**To get the RGBA pixel values of an image using the Pillow module in Python, you can use the getdata() method of an Image object. This method returns a sequence of pixel values for each band in the image, including the alpha band if present.**

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

**A box tuple is a Python tuple that represents a rectangular region in an image. It has four integer elements in the following order: (left, upper, right, lower), which specify the coordinates of the top-left and bottom-right corners of the box, respectively. It is often used in image processing libraries, such as Pillow, to specify the dimensions and location of an image region.**

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

**To get the width and height of an image using the Pillow module in Python, you can use the size attribute of an Image object. For example: width, height = img.size will give you the width and height of the img object.**

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

**To get an Image object for a 100x100 image, excluding the lower-left quarter of it, we can use the crop() method with the box tuple (0, 0, 50, 50).**

**This creates a new Image object with the pixels within the specified box tuple, which represents the region in the upper-left quarter of the image.**

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

**To save an Image object as an image file using the Pillow module, you can use the save() method of the Image object.**

**You can pass the filename as an argument to the save() method, and the file format is inferred from the file extension. If you want to specify a different file format, you can pass it as a second argument to the save() method, such as 'JPEG' for a JPEG file.**

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

**ImageDraw module in Pillow contains shape-drawing code. You can create a drawing context with ImageDraw.Draw(img), and use methods like rectangle(), ellipse(), polygon(), and line() to draw shapes on the Image object. The modified image can be displayed using the show() method.**

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

**ImageDraw objects have drawing methods in Pillow. Create one by calling ImageDraw.Draw(image), then use methods like line(), rectangle(), etc. to draw shapes and lines on the image.**