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**Full Stack Data Science- iNeuron 2021**  
**Python Basic Assignment: Assignment 14**

### **Question 1.**

What does RGBA stand for?

#### **Answer 1:**

RGBA color values are an extension of RGB color values with an alpha channel - which specifies the opacity for a color. An RGBA color value is specified with: `rgba(red, green, blue, alpha)`.

### **Question 2.**

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

#### **Answer 2:**

A function call to `ImageColor.getcolor('CornflowerBlue', 'RGBA')` will return `(100, 149, 237, 255)`, the RGBA value for that color.

### **Question 3.**

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

#### **Answer 3:**

A box tuple is a tuple value of four integers: the left-edge x-coordinate, the top-edge y-coordinate, the width, and the height, respectively.

### **Question 4.**

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

#### **Answer 4:**

`img.size` is a tuple of two integers, the width and the height.

```
from PIL import Image
img = Image.open('image.jpg')
img
img.size
```

### **Question 5.**

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

#### **Answer 5:**

`img.crop((0, 50, 50, 50))` #Notice that you are passing a box tuple to `crop()`, not four separate integer arguments.

### **Question 6.**

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

#### **Answer 6:**

Call the `img.save('newimg.jpg')` method of the Image object.

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**Question 7.**

What module contains Pillow's shape-drawing code?

**Answer 7:**

The ImageDraw module contains code to draw on images.

**Question 8.**

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

**Answer 8:**

ImageDraw objects have shape-drawing methods such as point(), line(), or rectangle(). They are returned by passing the Image object to the ImageDraw.Draw() function.