Assignment -14

1. What does RGBA stand for?

Ans: Red Green Blue Alpha – Float values in a closed interval

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

Ans: Pillow offers the ImageColor. getcolor() function so you don't have to memorize RGBA values for the colors you want to use. This function takes a color name string as its first argument, and the string 'RGBA' as its second argument, and it returns an RGBA tuple.

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

Ans: The box. tuple submodule provides read-only access for the tuple userdata type. It allows, for a single tuple: selective retrieval of the field contents, retrieval of information about size, iteration over all the fields, and conversion to a Lua table.

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

Image object?

1. Ans: Click the Windows Start button on your taskbar.
2. Type "Windows Explorer" or "File Explorer" into the search bar.
3. Open Windows Explorer.
4. Find the image you want to check.
5. Select your image. The dimensions and file size appear at the bottom of the window.

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

quarter of it?

Ans: PIL is the Python Imaging Library which provides the python interpreter with image editing capabilities. The Image module provides a class with the same name which is used to represent a PIL image. The module also provides a number of factory functions, including functions to load images from files, and to create new images.

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

1. Ans: Syntax: Image.save(fp, format=None, \*\*params)
2. Parameters:
3. fp – A filename (string), pathlib. Path object or file object. ...
4. Returns: None.
5. Raises:
6. KeyError – If the output format could not be determined from the file name. Use the format option to solve this.
7. What module contains Pillow’s shape-drawing code?

Ans: With Pillow, you can also draw on an image using the ImageDraw module. You can draw lines, points, ellipses, rectangles, arcs, bitmaps, chords, pie slices, polygons, shapes, and text.

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

of object?

1. Ans: Python PIL | ImageDraw.Draw.text()
2. Python PIL |ImageDraw.Draw.multiline\_text()
3. Python PIL | ImageDraw.Draw.rectangle()
4. Python PIL | ImageDraw.Draw.arc()
5. Python PIL | ImageDraw.Draw.line()
6. Python PIL | ImageDraw.Draw.chord()
7. Python PIL | ImageDraw.Draw.multiline\_textsize()
8. Python PIL | ImageDraw.Draw.ellipse()