1. What does RGBA stand for?

***Ans****: RGBA(Red-Green-Blue-Alpha)*

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

***Ans****: 1. import the Image module from the Pillow library. from PIL import Image.*

*2.Open any image and get the RAGBAG values. img = Image.open('image.png') rgba = img.convert(“RGBA”).*

*3. Change the color. Data will be an Imaging Core object containing thousands of tuples of RGBA values.*

*4. Store the changed image.*

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

***Ans****: a tuple of four integer coordinates that represent a rectangular region in an image. The four integers are, in order, as follows:*

1. *Left The x-coordinate of the leftmost edge of the box.*
2. *Top The y-coordinate of the top edge of the box.*
3. *Right The x-coordinate of one pixel to the right of the rightmost edge of the box. This integer must be greater than the left integer.*
4. *Bottom The y-coordinate of one pixel lower than the bottom edge of the box. This integer must be greater than the top integer.*
5. Use your image and load in notebook then, How can you find out the width and height of an Image object?

***Ans****: from PIL import Image*

*# get image*

*filepath = "cat.png"*

*img = Image.open(filepath)*

*# get width and height*

*width = img.width*

*height = img.height*

*# display width and height*

*print("The height of the image is: ", height)*

*print("The width of the image is: ", width)*

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

***Ans****: The resize() method*

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

***Ans****: calling the save() method*

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

***Ans****: use Pillow’s ImageDraw module*

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

***Ans****: Pillow’s ImageDraw module.*

*The point(xy, fill) method draws individual pixels.*

*The line(xy, fill, width) method draws a line or series of lines.*

*The rectangle(xy, fill, outline) method draws a rectangle.*

*The ellipse(xy, fill, outline) method draws an ellipse.*