**Assignment 14**

1. What does RGBA stand for?

Ans: RGBA stands for Red Green Blue Alpha.

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

Ans: To get RGBA value of any color we can use the ImageColor.getcolor(‘color’, ‘RGBA’) method. For example:

From PIL import ImageColor

ImageColor.getcolor(‘red’,’RGBA’) #print (255,0,0,255)

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

Ans: Box tuple is the tuple of four integers, representing the rectangular region of any image. It consists of (left,top,right,bottom) values where left is the leftmost x element, top is topmost y element, right is the rightmost x element and bottom is the lowest value of y element.

4. 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

catIm=Image.open('Image\_created\_with\_a\_mobile\_phone.png')

width,height=catIm.size

print(width,height)

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

quarter of it?

Ans: from PIL import Image

im=Image.new('RGBA', (100, 100), 'red')

im.save('Image.png')

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

Ans: By using save method we can save an image file. Imageobject.save(‘image\_name.png’)

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

Ans: ImageDraw module contains Pillow’s shape-drawing code.

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

of object?

Ans: ImageDraw objects have various drawing methods, which Image objects don’t have. We can get this object by following code:

rom PIL import Image,ImageDraw

imageObject=Image.new('RGBA', (100,100),'red')

imagedrawobject=ImageDraw.Draw(imageObject)