



Lab Assignment 8 - Python

1. Write a python program to read an image and do the following:
 - Get the information related to the image.
 - Rotate the image to specific angle given by user.
 - Flip the image to left-right and top-bottom.
 - Resize the image to new size.
 - Thumbnail of your image.
 - convert image to grey scale and black-white.
 - Apply different filters on the image.

2. Write a python program to read an image and do the following:
 - Convert image to numpy array.
 - Get the attributes of that image.
 - Flip the image to top-bottom and opposite direction using array slicing.
 - Crop portion of image using array slicing.
 - Blur the image using Array slicing.

3. Create a Python virtual environment. Do a hello world program in that environment.

4. Write a python program to read a url and do the following:
 - Get the title of the webpage.
 - Get the body of the webpage and create a text file with it.
 - Get all the urls that the web page refers to.

5. Make an html page and traverse over the tree iteratively, recursively and sideways.
6. Make a soup object and show different methods for modifying the contents.
7. Make a soup object and show different methods to remove the contents and tags.
8. Write a python program using scipy to read and write a wavfile.
9. Write a python program to get iris data from sklearn library.