LAB 8: Cassandra Cabrera and Mike Menendez **Due:** Feb.19, 2020

Summary: Task 3 was particularly more interesting as we were allowed to explore the different attributes that the Image class has to offer, such as seek, rotate, etc. Also, being able to read the documentation behind how the Image module works and everything you can do with it helped us better understand exactly what is going on when we have been writing programs for the past couple of labs.

Task 1:
In Lab8.txt
Task 2:
In Lab8.txt
Task 3:
Info in Lab8.txt

```
from PIL import Image

def main():
    print("Enter file path:")
    img = Image.open(input().strip(), 'r')

    print(dir(img))


if __name__ == "__main__":
    main()
```

```
oad.jpg'
(env) Cassandras-MacBook-Pro:8 casscabrera$ python3 image.py
Enter file path:
/Users/casscabrera/Desktop/CST205/download.jpeg
['_Image__transformer', '__array_interface__', '__class__', '__copy__', '__delattr__', '__dict__'
', '__dir__', '__doc__', '__enter__', '__eq__', '__exit__', '__format__', '__ge__', '__getattrib
ute__', '__getstate__', '__gt__', '__hash__', '__init__', '__init_subclass__', '__le__', '__lt__
', '__module__', '__ne__', '__new__', '__reduce__', '__reduce_ex__', '__repr__', '__setattr__',
'__setstate__', '__sizeof__', '__str__', '__subclasshook__', '__weakref__', '_close_exclusive_fp
_after_loading', '_copy', '_crop', '_dump', '_ensure_mutable', '_exclusive_fp', '_exif', '_expan
d', '_get_safe_box', '_getexif', '_getmp', '_min_frame', '_new', '_open', '_repr_png_', '_seek_c
heck', '_size', 'alpha_composite', 'app', 'applist', 'bits', 'category', 'close', 'convert', 'co
py', 'crop', 'custom_mimetype', 'decoderconfig', 'decodermaxblock', 'draft', 'effect_spread', 'e
ntropy', 'filename', 'filter', 'format', 'format_description', 'fp', 'frombytes', 'fromstring',
'get_format_mimetype', 'getbands', 'getbbox', 'getchannel', 'getcolors', 'getdata', 'getexif', '
getextrema', 'getim', 'getpalette', 'getpixel', 'getprojection', 'height', 'histogram', 'huffman
_ac', 'huffman_dc', 'icclist', 'im', 'info', 'layer', 'layers', 'load', 'load_djpeg', 'load_end'
, 'load_prepare', 'load_read', 'mode', 'offset', 'palette', 'paste', 'point', 'putalpha', 'putda
ta', 'putpalette', 'putpixel', 'pyaccess', 'quantization', 'quantize', 'readonly', 'reduce', 're
map_palette', 'resize', 'rotate', 'save', 'seek', 'show', 'size', 'split', 'tell', 'thumbnail',
'tile', 'tobitmap', 'tobytes', 'toqimage', 'toqpixmap', 'tostring', 'transform', 'transpose', 'v
erify', 'width']
(env) Cassandras-MacBook-Pro:8 casscabrera$
```

Task 4:

Info in Lab8.txt

```python
class Song:
    def __init__(self, artist, genre, length, album):
        self.artist = artist
        self.genre = genre
        self.length = length
        self.album = album

ready_to_let_go = Song("Cage The Elephant", "Indie Rock", 188, "Ready To Let Go")
despacito = Song("Luis Fonsi", "Reggaeton", 229, "VIDA")

print(dir(despacito))
```

Task 5:

Studying for the quiz is ongoing. We have made our note cards.