Assignment #1
(LO 1)

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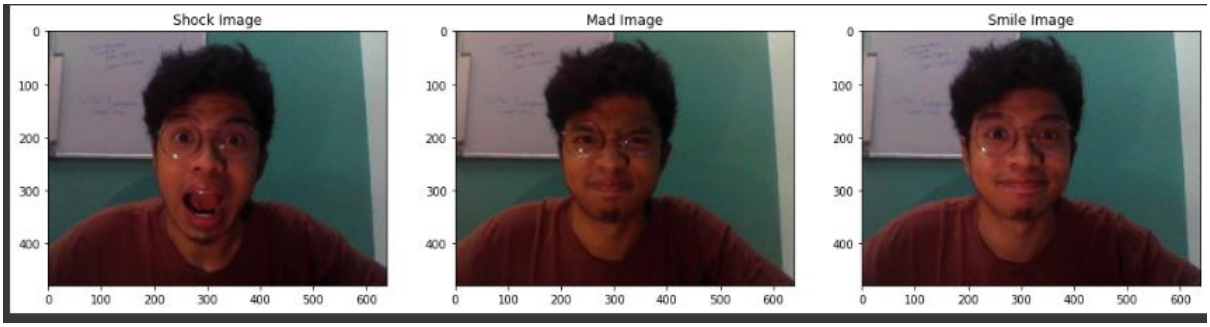
Github Link: https://github.com/haiiqball/1815805-KPT-Machine-Learning-Assignment-1
QUESTION 1

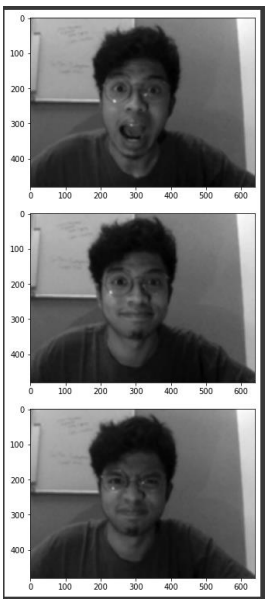
List of libraries used:

- IPython.display import display, Javascript
- google.colab.output import eval_js
- base64 import b64decode
- cv2
- numpy as np
- matplotlib.pyplot as plt
- fPIL import Image
- fIPython.display import Image
- %matplotlib inline

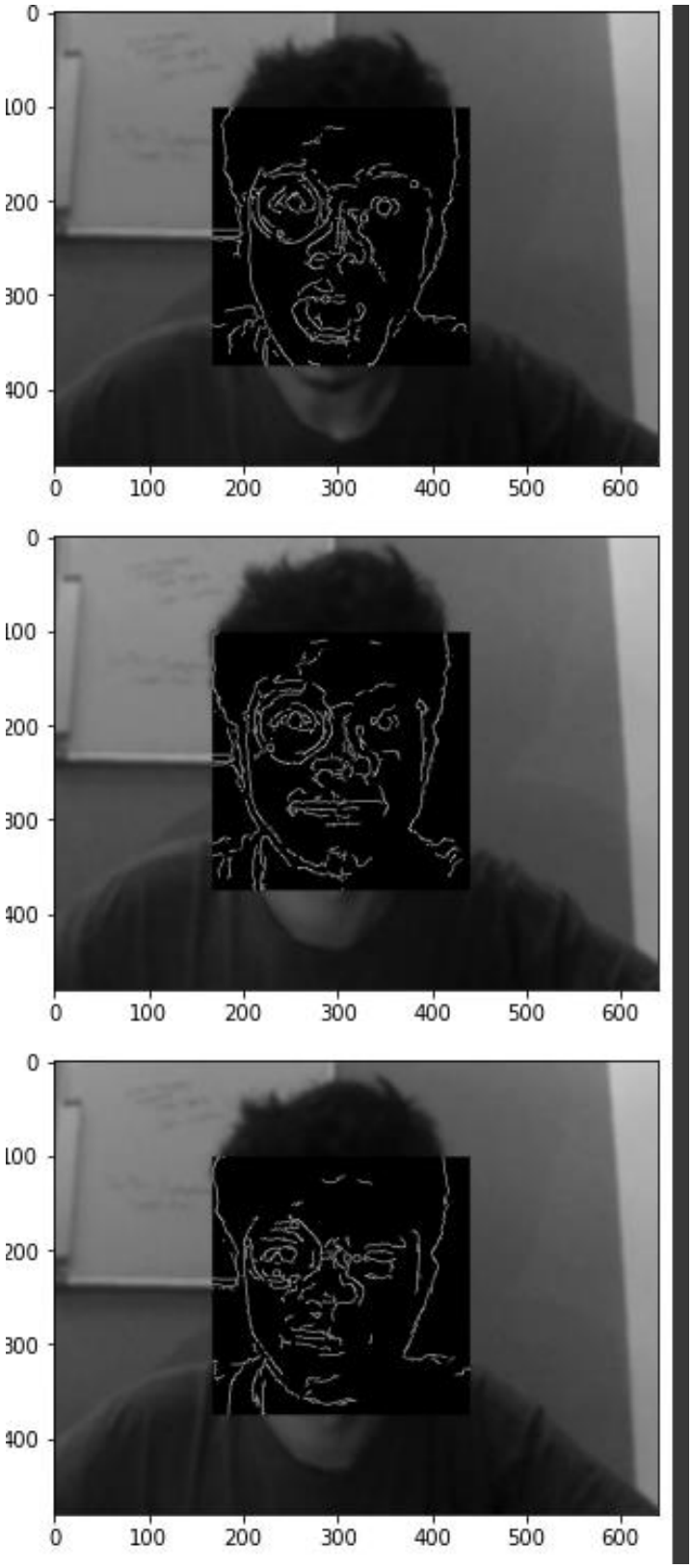
1. **Facial Expressions Images**
    a. Using webcam to capture 3 images with 3 different expressions.



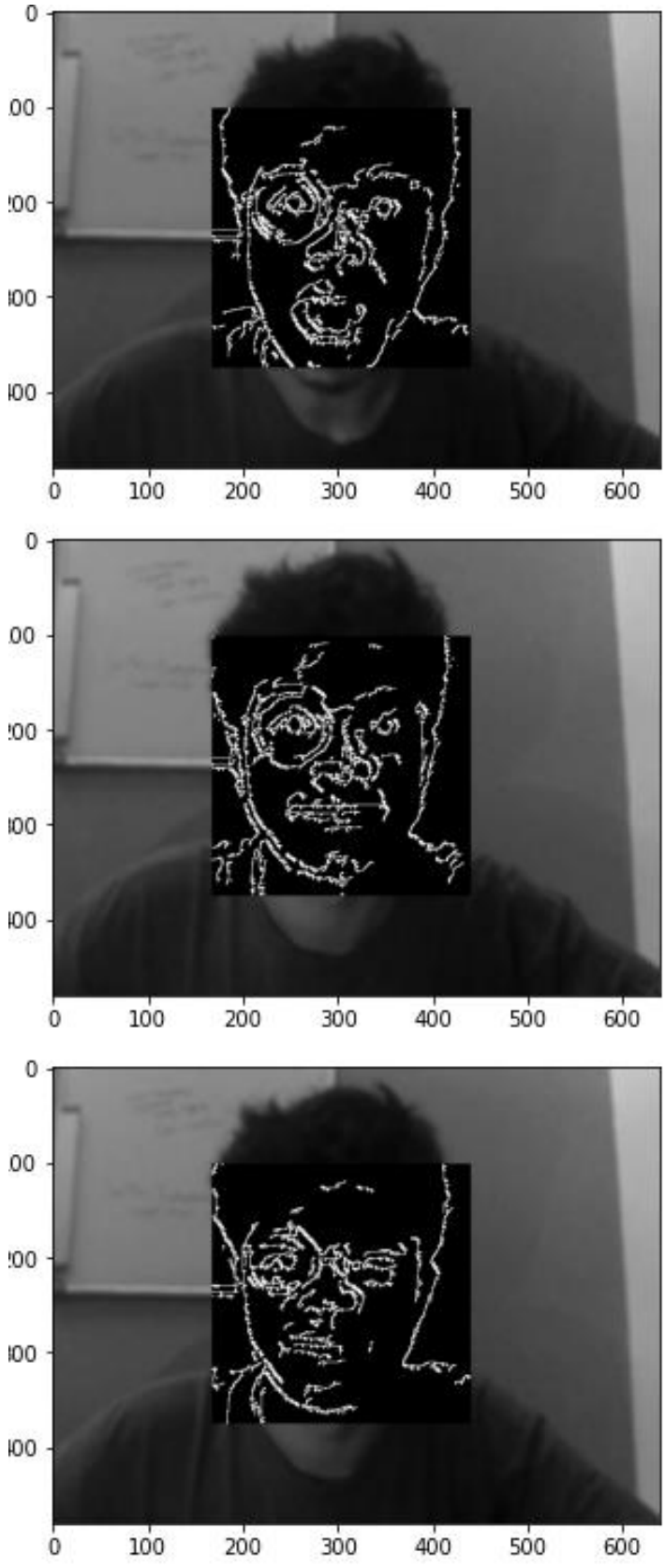
2. **Image Processing**
    a. Change to gray image



3. Edge Filtering
    a. Canny Edge Detection



b. Sobel Edge Detection

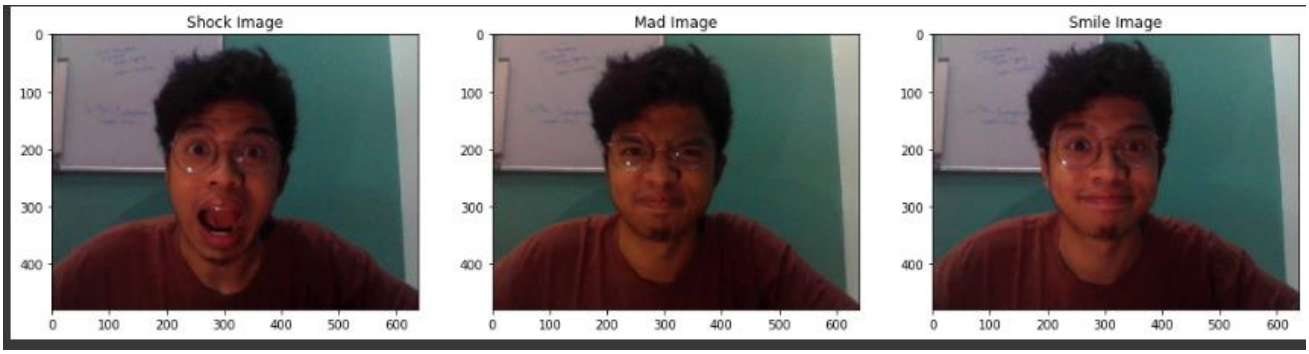


QUESTION 2

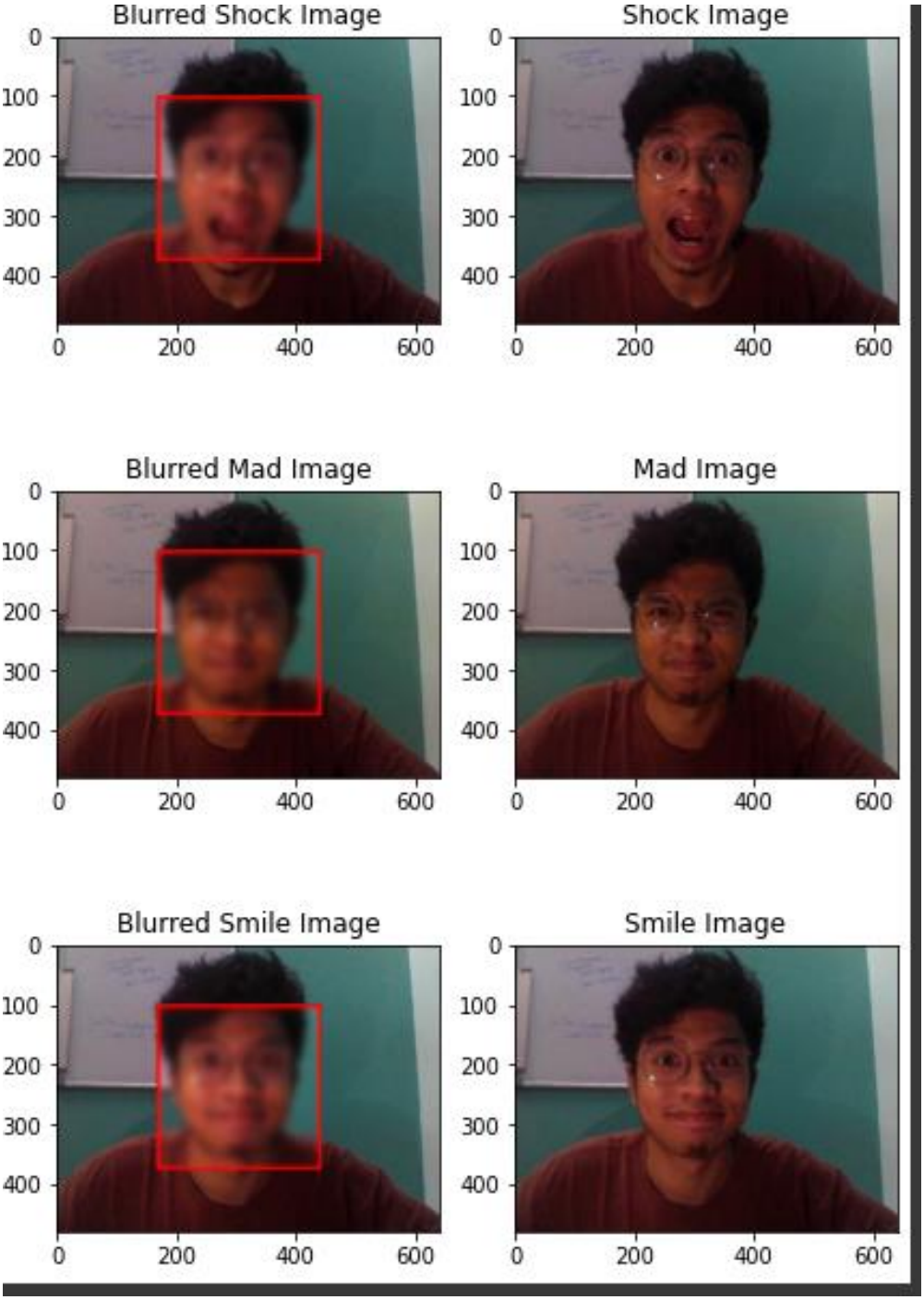
List of libraries used

- IPython.display import display, Javascript
- google.colab.output import eval_js
- base64 import b64decode
- cv2
- numpy as np
- matplotlib.pyplot as plt
- fPIL import Image
- fIPython.display import Image
- %matplotlib inline

1. **Import three pictures with three different expressions**



2. Detect faces and apply Gaussian Blur

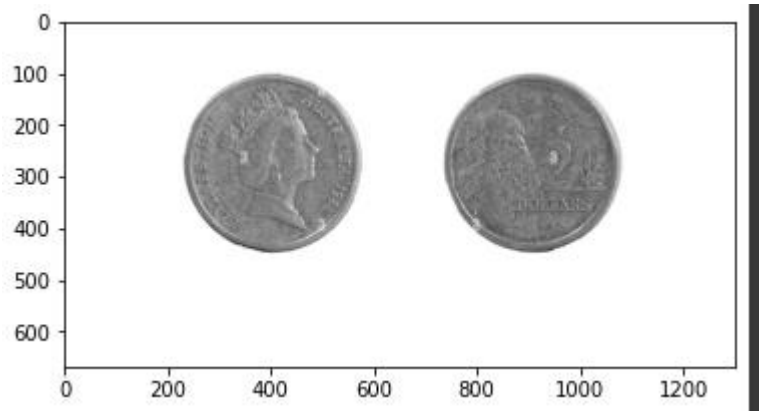


QUESTION 3

List of libraries used

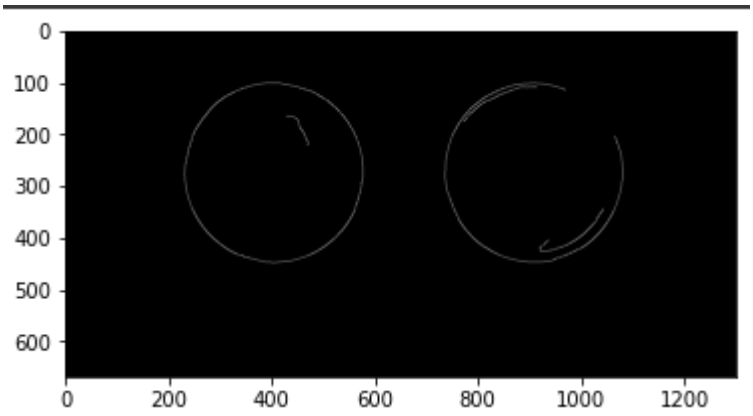
- import cv2
- import numpy as np
- import matplotlib.pyplot as plt
- from PIL import Image
- from IPython.display import Image
- %matplotlib inline

1. **Import image of coin**

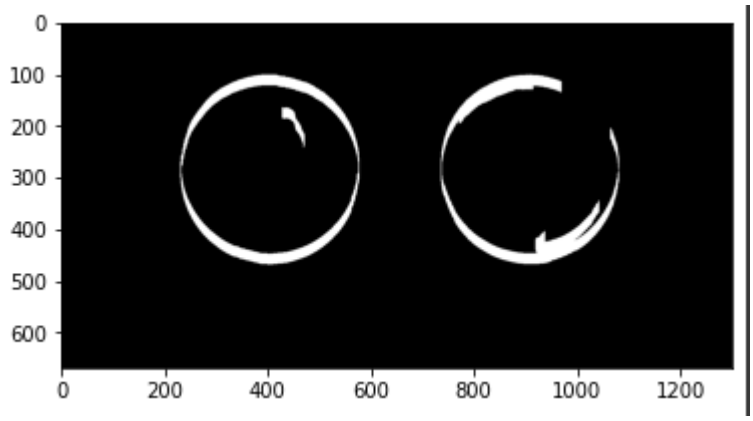


2. **Image Processing**

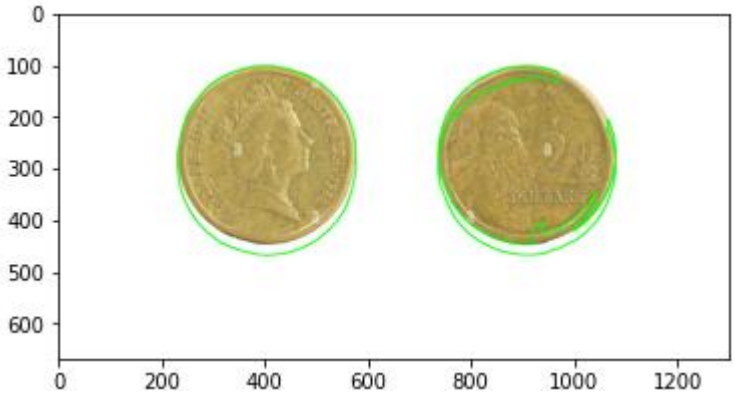
3. Edge Filtering



4. Dilation



5. Apply Contour

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] print(len(countour))

  2
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