**Experiment Code Documentation**

**Introduction**

This document captures the experiment implementation details.

**Code Details**

**File Name :** script.js

**File Description :** it has events related to button “select image”,”reset”,”run” and tabs “single” and “multiple”

**Function :**openTab()

**Function Description :** it have a condition to evaluate checkedValue(image id) on click tabs to get visible and accessible.

**Function :**load()

**Function Description :**load() has functionality to initialize the default values, assigned in html to json and also has event to focus the selected image in modal

**Function :**getImageId()

**Function Description :** get the image id (checkedValue) and assign to json object

**Function :**reset().

**Function Description :** will reset all value in html and json

**Other details:**

**Formulas used in the Experiment**

1. Final input dataobject of json made would be of this type

input = {

"input":null,

"scaling": {

"scaling":null,

"s\_value":0

},

"rotation":0,

"translation":{

"x\_val":0,

"y\_val":0

},

"interpolation":"nearest",

"img":0

}

2. Initially the all vector is assigned [0, 0] or null relatively.

3. There are inputs values (interpolation, scaling(up/down), translation ,rotation) .The JSON object is forwarded to python which use opencv libraries to process images with respect to input.

4. Now the final image is stored static/img/result.jpeg and accessible to html and js