Lab 4

Lezhong Gao
001818802

Part 1 Camera Calibration
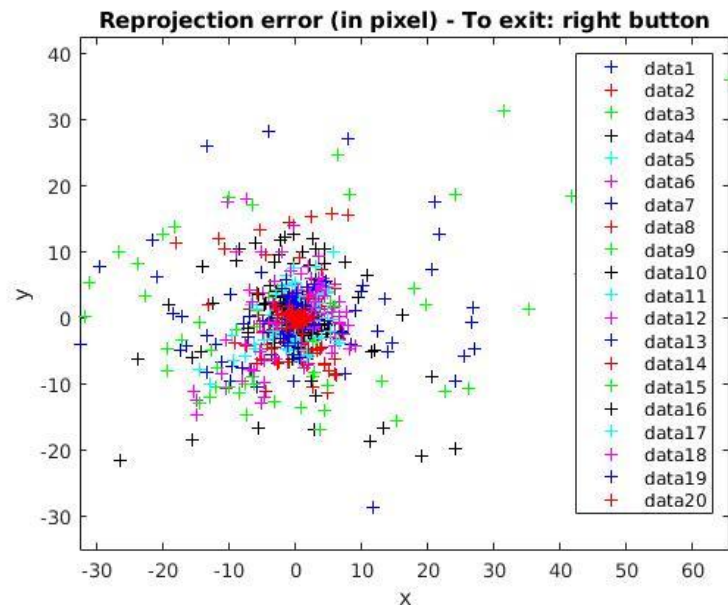
Focal Length: fc = [3293.14319   3306.32171] +/- [45.73946 48.42812]

Principal point: cc = [1989.22764   1460.06535] +/- [46.71640 38.65619]

Skew: alpha_c = [0.00000] +/- [0.00000]   => angle of pixel axes = 90.00000 +/- 0.00000 degrees
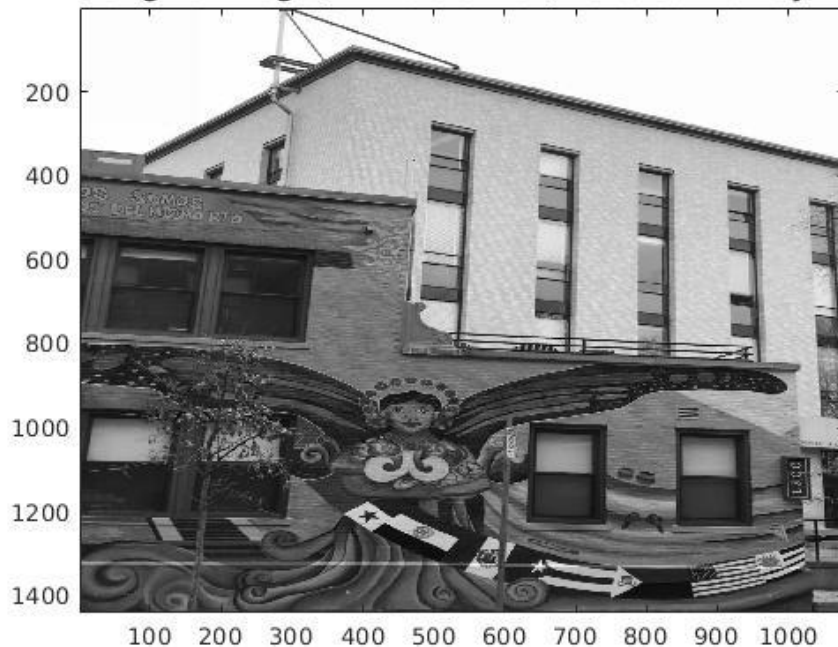
Distortion: kc = [0.09435   -0.31206   -0.00421   -0.00070 0.00000] +/- [0.03035   0.08678   0.00435   0.00530 0.00000]

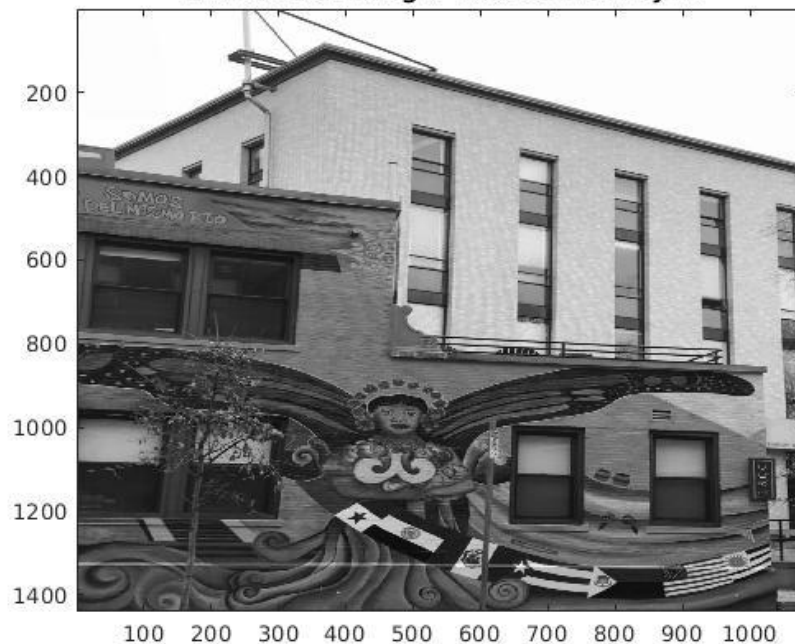Pixel error: err = [6.91207   5.43861]

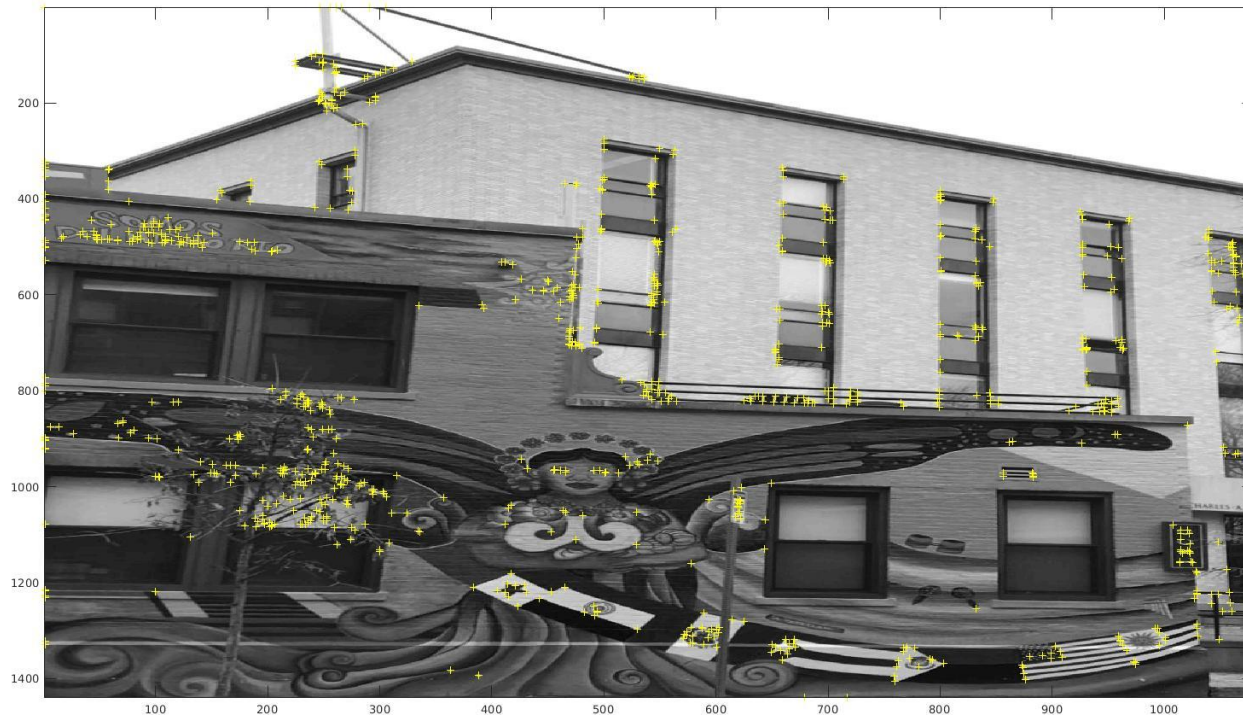# Part 2&3 Distorsion correction example

Original image (with distortion) - Stored in array I
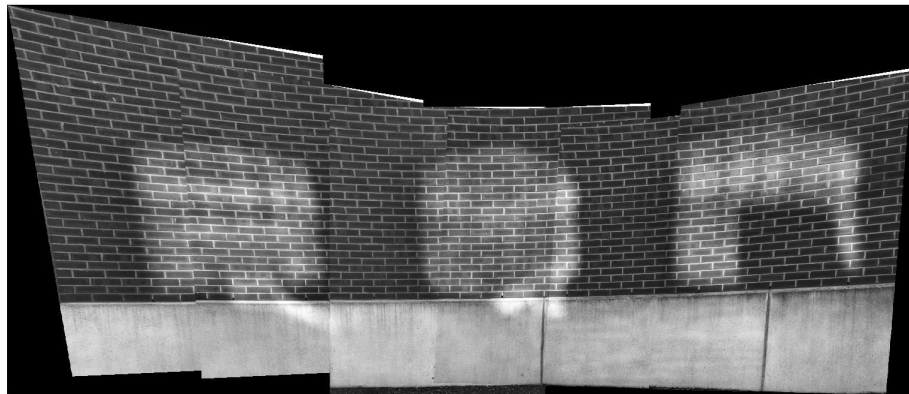
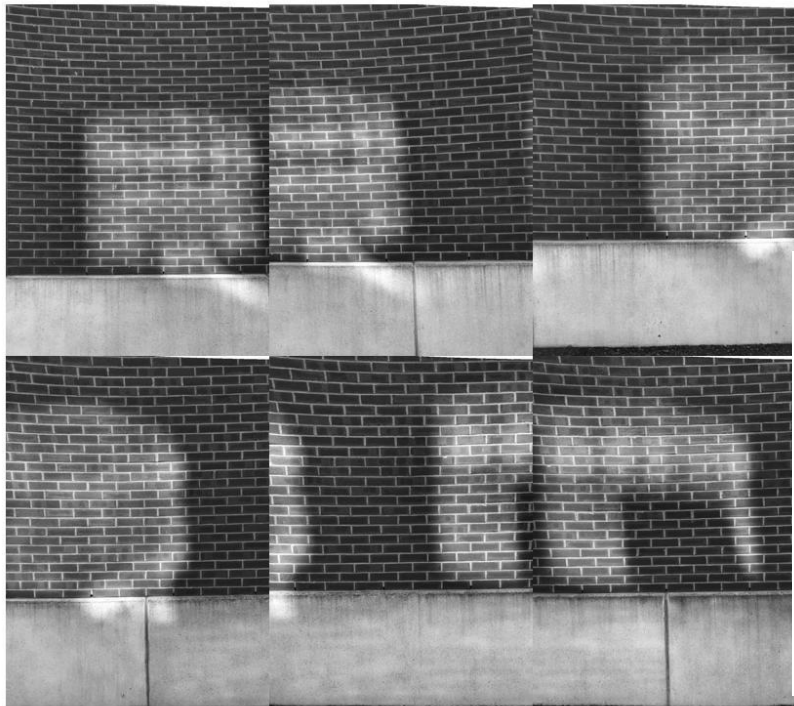Undistorted image - Stored in array I2

Part 4 Get features by using harris detector

Part 5 & 6 & 7

part 8 block wall

Part 9 Another graffiti with 15% overlap