I want to use 3 free late days for this assignment.

4.1: 'MatchThreshold', 10

Graphical user interface, website

Description automatically generated 'MaxRatio', 0.68

4.2:

Chart, histogram

Description automatically generated

Chart, bar chart, histogram

Description automatically generated

The BRIEF will not work when the image rotates, this may because BRIEF uses detectFASTFeatures function that is not able to detect features from two rotated images. After using SURF, the plot changes significantly, SURF handles rotated images much better than BRIEF. Following are some examples.

Letter

Description automatically generated with medium confidence

BRIEF rotate 30 degrees

A picture containing text

Description automatically generated

SURF rotate 30 degrees

A picture containing text

Description automatically generated

BRIEF rotate 100 degrees



SURF rotate 100 degrees

Text, letter

Description automatically generated

BRIEF rotate 200 degrees

A picture containing shape

Description automatically generated

SURF rotate 200 degrees

4.3: generated by visualize.m (computeH)Graphical user interface, website

Description automatically generated

4.4: generated by visualize.m (compute\_norm)

Graphical user interface, website

Description automatically generated

4.5: generated by visualize.m (compute\_ransac)

Graphical user interface, website

Description automatically generated

4.6:

A picture containing graphical user interface

Description automatically generated

Graphical user interface, website

Description automatically generated