```
 1  C:¥Users¥sebbe¥AppData¥Local¥Microsoft¥WindowsApps¥python.exe C
    :/Users/sebbe/Desktop/MED3-local/MTA20334-3rd-Semester-Project-
    Program/HandTracking/DataSetManager.py
 2  Image Directory:
 3  FeatureImages/C
 4  Save Path:
 5  Binarized_Pictures/Binarized_C
 6   0%|        | 0/11 [00:00<?, ?it/s]+------------------------+
 7  | Image Loop Started.
 8  | Directory: FeatureImages/C
 9  | Save Path: Binarized_Pictures/Binarized_C
10  +------------------------+
11  | Images in Directory: 11
12  +------------------------+
13  The gesture is: C
14   18%|██      | 2/11 [01:41<06:10, 41.19s/it]The gesture is: A
15  Neither A, B or C was detected.
16   36%|███     | 4/11 [02:47<04:17, 36.77s/it]The gesture is: A
17   45%|████    | 5/11 [03:19<03:31, 35.30s/it]The gesture is: A
18  The gesture is: A
19   64%|█████   | 7/11 [04:13<02:03, 30.99s/it]The gesture is: A
20  The gesture is: C
21   73%|██████  | 8/11 [04:39<01:29, 29.70s/it]The gesture is: C
22   82%|███████ | 9/11 [06:02<01:30, 45.47s/it]The gesture is: C
23  100%|████████| 11/11 [08:34<00:00, 46.80s/it]
24  The gesture is: A
25  +--------- Test Results ---------+
26  Images tested: 11
27  Execution time: 522.45 seconds
28  +--------- Compactness ----------+
29  Elements in Compactness [44, 54, 62, 56, 58, 50, 48, 45, 47, 46, 36]
30  Avg. Compactness 49.63636363636363
31  Min 36
32  Max 62
33  +--------- Aspect Ratio ---------+
34  Elements in Aspect Ratio [1.0506912442396312, 1.423780487804878, 0.
```

34 4010840108401084, 1.4861751152073732, 1.2695924764890283, 1.322505800464037, 1.3700787401574803, 1.0055452865064696, 1.0705198109778262, 1.1232356134636265, 1.187028657616893]

35 Avg. Aspect Ratio 1.155476113069759

36 Min 0.4010840108401084

37 Max 1.4861751152073732

38 +-------- Projection Histogram --------+

39 Elements in Max Height [1.2280701754385965, 0.6531531531531531, 2.6782945736434107, 0.625, 0.7401574803149606, 0.7485822306238186, 0.488659793814433, 1.0429864253393666, 0.8952234206471494, 0.9242424242424242, 0.7098248286367098]

40 Elements in Horizontal Ratio [200.9447004608295, 345.1829268292683, 89.14634146341463, 366.6359447004608, 304.56112852664575, 312.9814385150812, 324.6062992125984, 208.33641404805914, 240.63249727371866, 228.42019543973942, 252.5]

41 Elements in Vertical Ratio [234.8684210526316, 158.35117773019272, 595.2871621621622, 154.1860465116279, 177.55555555555554, 177.1578947368421, 115.77586206896552, 216.09375, 201.22920203735146, 187.95311744804252, 150.99110546378654]

42 Elements in Max Height Diff [2.441860465116279, 1.5846994535519126, 1.1109324758842443, 1.7256637168141593, 1.6022727272727273, 2.3157894736842106, 1.196969696969697, 1.773076923076923, 2.006908462867012, 1.490713587487781, 1.7038391224862888]

43 +-------- Data Sets --------+

44 Compactness Dataset [44, 54, 62, 56, 58, 50, 48, 45, 47, 46, 36]

45 Aspect Ratio Dataset [1.0506912442396312, 1.423780487804878, 0.4010840108401084, 1.4861751152073732, 1.2695924764890283, 1.322505800464037, 1.3700787401574803, 1.0055452865064696, 1.0705198109778262, 1.1232356134636265, 1.187028657616893]

46 Histogram Max Height Relation Dataset [1.2280701754385965, 0.6531531531531531, 2.6782945736434107, 0.625, 0.7401574803149606, 0.7485822306238186, 0.488659793814433, 1.0429864253393666, 0.8952234206471494, 0.9242424242424242, 0.7098248286367098]

47 Histogram Hori Dataset [200.9447004608295, 345.1829268292683, 89.14634146341463, 366.6359447004608, 304.56112852664575, 312.9814385150812, 324.6062992125984, 208.33641404805914, 240.

47 63249727371866, 228.42019543973942, 252.5]

48 Histogram Vert Dataset [234.8684210526316, 158.35117773019272, 595.2871621621622, 154.1860465116279, 177.55555555555554, 177.1578947368421, 115.77586206896552, 216.09375, 201.22920203735146, 187.95311744804252, 150.99110546378654]

49 Histogram Max Height Diff Dataset [2.441860465116279, 1.5846994535519126, 1.1109324758842443, 1.7256637168141593, 1.6022727272727273, 2.3157894736842106, 1.196969696969697, 1.773076923076923, 2.006908462867012, 1.490713587487781, 1.7038391224862888]

50 +-------- Standard Deviance --------+

51 C, A, HMHRD, HHD, HVD, HMHDD [0.005979646814943079, 0.041203372174752936, 0.0413582148185 7646, 0.1912466649340101, 0.17602635864950852, 0.04072173100690969]

52 average 0.040221514758590975

53 average 0.0009363095144420901

54 average 0.0007907427888988896

55 average 0.21171160683345605

56 average 0.17454732560294914

57 average 0.0013961673127404505

58 +----------------------------+

59

60 Process finished with exit code 0

61