```
1 C:\Users\u20a4sebbe\u20a4AppData\u20a4Local\u20a4Microsoft\u20a4WindowsApps\u20a4python.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
  +----+
7 | Image Loop Started.
8 | Directory: FeatureImages/C
  Save Path: Binarized_Pictures/Binarized_C
10 +-----
11 | Images in Directory: 10
12 +----+
13 10% | 1/10 [00:33<04:57, 33.06s/it] The gesture is: C
14 The gesture is: A
15
   30%
               | 3/10 [02:45<05:33, 47.71s/it]The gesture is: A
16 The gesture is: A
17 50% | 5/10 [03:50<03:17, 39.51s/it] The gesture is: A
        6/10 [04:19<02:25, 36.41s/it]The gesture is: A
18 60%
19 The gesture is: C
20 70%
               | 7/10 [04:48<01:42, 34.11s/it]The gesture is: C
21 90% | 9/10 [07:25<00:55, 55.71s/it] The gesture is: C
22 The gesture is: A
23 100%
                | 10/10 [09:08<00:00, 54.81s/it]
24 +-----+
25 Images tested: 10
26 Execution time: 555.49 seconds
27 +-----+
28 Elements in Compactness [44, 54, 56, 58, 50, 48, 45, 47, 46, 36]
29 Avg. Compactness 48.4
30 Min 36
31 Max 58
32 +-----+
33 Elements in Aspect Ratio [1.0506912442396312, 1.423780487804878, 1.
   4861751152073732, 1.2695924764890283, 1.322505800464037, 1.
```

- 33 3700787401574803, 1.0055452865064696, 1.0705198109778262, 1. 1232356134636265, 1.187028657616893]
- 34 Avg. Aspect Ratio 1.2309153232927241
- 35 Min 1.0055452865064696
- 36 Max 1.4861751152073732
- 37 +-----+
- 38 Elements in Max Height [1.2280701754385965, 0.6531531531531531, 0.625, 0.7401574803149606, 0.7485822306238186, 0.488659793814433, 1.0429864253393666, 0.8952234206471494, 0.9242424242424242, 0.7098248286367098]
- 39 Elements in Horizontal Ratio [200.9447004608295, 345.1829268292683, 366.6359447004608, 304.56112852664575, 312.9814385150812, 324. 6062992125984, 208.33641404805914, 240.63249727371866, 228. 42019543973942, 252.5]
- 40 Elements in Vertical Ratio [234.8684210526316, 158.35117773019272, 154 .1860465116279, 177.55555555555555554, 177.1578947368421, 115. 77586206896552, 216.09375, 201.22920203735146, 187.95311744804252, 150.99110546378654]
- 41 Elements in Max Height Diff [2.441860465116279, 1.5846994535519126, 1 .7256637168141593, 1.6022727272727273, 2.3157894736842106, 1. 1969696969697, 1.773076923076923, 2.006908462867012, 1. 490713587487781, 1.7038391224862888]
- 42 +----+
- 43 Compactness Dataset [44, 54, 56, 58, 50, 48, 45, 47, 46, 36]
- 44 Aspect Ratio Dataset [1.0506912442396312, 1.423780487804878, 1. 4861751152073732, 1.2695924764890283, 1.322505800464037, 1. 3700787401574803, 1.0055452865064696, 1.0705198109778262, 1. 1232356134636265, 1.187028657616893]
- 45 Histogram Max Height Relation Dataset [1.2280701754385965, 0. 6531531531531531, 0.625, 0.7401574803149606, 0.7485822306238186, 0. 488659793814433, 1.0429864253393666, 0.8952234206471494, 0. 92424242424242, 0.7098248286367098]
- 46 Histogram Hori Dataset [200.9447004608295, 345.1829268292683, 366. 6359447004608, 304.56112852664575, 312.9814385150812, 324. 6062992125984, 208.33641404805914, 240.63249727371866, 228. 42019543973942, 252.5]

47 Histogram Vert Dataset [234.8684210526316, 158.35117773019272, 154. 1860465116279, 177.555555555555554, 177.1578947368421, 115. 77586206896552, 216.09375, 201.22920203735146, 187.95311744804252, 150.99110546378654 48 Histogram Max Height Diff Dataset [2.441860465116279, 1. 5846994535519126, 1.7256637168141593, 1.6022727272727273, 2. 3157894736842106, 1.196969696969697, 1.773076923076923, 2. 006908462867012, 1.490713587487781, 1.7038391224862888] 49 +------ Standard Deviance -----+ 50 C, A, HMHRD, HHD, HVD, HMHDD [0.006012833724838949, 0. 04622898049610847, 0.04664600516646842, 0.2321599364462837, 0. 13050964636882262, 0.04568782642918657] 51 average 0.04500087966081303 52 average 0.001144468436697245 53 average 0.0007490136020846313 54 average 0.258922560343139 55 average 0.16495631534737362 56 average 0.0016588768761289347 57 +----+ 58 59 Process finished with exit code 0 60