```
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/B
 4 Save Path:
 5 Binarized_Pictures/Binarized_B
  +----+
 7 | Image Loop Started.
 8 | Directory: FeatureImages/B
  | Save Path: Binarized_Pictures/Binarized_B
10 +-----
11 | Images in Directory: 11
12 +-----
   9% | 1/11 [00:28<04:42, 28.26s/it] The gesture is: B
13
                | 2/11 [01:42<06:18, 42.05s/it]The gesture is: B
14 18%
15
   27%
                 | 3/11 [02:21<05:30, 41.27s/it] Neither A, B or C was
   detected.
  36%
                  | 4/11 [02:50<04:21, 37.43s/it]The gesture is: B
16
17 The gesture is: A
                     | 6/11 [03:50<02:47, 33.55s/it] The gesture is: B
18
   55%
19 The gesture is: B
20 73%
                        | 8/11 [04:48<01:33, 31.12s/it]The gesture is: B
21 The gesture is: B
22 91%
                       | 10/11 [06:54<00:47, 47.25s/it]The gesture is:
   В
23 The gesture is: B
24 100%
                      | 11/11 [07:56<00:00, 43.29s/it]
25 +-----+
26 Images tested: 11
27 Execution time: 587.47 seconds
28 +-----+
29 Elements in Compactness [73, 70, 58, 73, 62, 63, 64, 71, 72, 76, 67]
30 Avg. Compactness 68.0909090909091
31 Min 58
32 Max 76
```

- 34 Elements in Aspect Ratio [2.236220472440945, 2.2051282051282053, 0. 4042253521126761, 2.1722054380664653, 1.478589420654912, 1. 8266331658291457, 1.8865030674846626, 1.978319783197832, 1. 8912855910267472, 2.209062821833162, 1.983890954151177]
- 35 Avg. Aspect Ratio 1.8429149338114483
- 36 Min 0.4042253521126761
- 37 Max 2.236220472440945
- 38 +-----
- 39 Elements in Max Height [0.4524236983842011, 0.443333333333333333333, 2. 4941634241245136, 0.45874125874125876, 0.6025408348457351, 0. 4978601997146933, 0.5091514143094842, 0.4924137931034483, 0. 5141552511415525, 0.4580552907530982, 0.46591661151555264]
- 40 Elements in Horizontal Ratio [559.1929133858267, 560.4395604395604, 92 .30281690140845, 550.8308157099698, 353.9168765743073, 449. 13316582914575, 470.10736196319016, 501.0162601626016, 481. 8377911993098, 550.9680741503605, 477.453531598513]
- 41 Elements in Vertical Ratio [113.13380281690141, 112.67441860465117, 569.5296167247387, 116.32823365785814, 144.22487223168653, 122. 414030261348, 126.8780487804878, 124.70547945205479, 130. 98996350364965, 114.24475524475524, 112.12991880074954]
- 42 Elements in Max Height Diff [1.2173913043478262, 1.2975609756097561, 1.3667377398720681, 1.3067729083665338, 1.2342007434944238, 1. 2830882352941178, 1.176923076923077, 1.3522727272727273, 1. 33570581257414, 1.2578534031413613, 1.193220338983051]
- 43 +----+
- 44 Compactness Dataset [73, 70, 58, 73, 62, 63, 64, 71, 72, 76, 67]
- 45 Aspect Ratio Dataset [2.236220472440945, 2.2051282051282053, 0. 4042253521126761, 2.1722054380664653, 1.478589420654912, 1. 8266331658291457, 1.8865030674846626, 1.978319783197832, 1. 8912855910267472, 2.209062821833162, 1.983890954151177]
- 46 Histogram Max Height Relation Dataset [0.4524236983842011, 0. 44333333333333333336, 2.4941634241245136, 0.45874125874125876, 0. 6025408348457351, 0.4978601997146933, 0.5091514143094842, 0. 4924137931034483, 0.5141552511415525, 0.4580552907530982, 0. 46591661151555264]

47 Histogram Hori Dataset [559.1929133858267, 560.4395604395604, 92. 30281690140845, 550.8308157099698, 353.9168765743073, 449. 13316582914575, 470.10736196319016, 501.0162601626016, 481. 8377911993098, 550.9680741503605, 477.453531598513] 48 Histogram Vert Dataset [113.13380281690141, 112.67441860465117, 569. 5296167247387, 116.32823365785814, 144.22487223168653, 122. 414030261348, 126.8780487804878, 124.70547945205479, 130. 98996350364965, 114.24475524475524, 112.12991880074954] 49 Histogram Max Height Diff Dataset [1.2173913043478262, 1. 2975609756097561, 1.3667377398720681, 1.3067729083665338, 1. 2342007434944238, 1.2830882352941178, 1.176923076923077, 1. 35227272727273, 1.33570581257414, 1.2578534031413613, 1. 193220338983051 50 +----- Standard Deviance -----+ 51 C, A, HMHRD, HHD, HVD, HMHDD [0.0032563190379029405, 0. 03994086715274591, 0.04064731422238619, 0.2482472635620524, 0. 0963957644902695, 0.040282301781392076] 52 average 0.039140382972585215 53 average 0.0010593542847103373 54 average 0.0003861130903801726 55 average 0.2637507454887516 56 average 0.09339622479525084 57 average 0.0007327313419541355 58 +-----59 60 Process finished with exit code 0 61