Editor - C:\Users\ivani\OneDrive\Desktop\CPT_S 534\ass8.m

| ass4.m | ass5.m | quiz1.m | HW6_classify_by_mlr.m | bayespoints.m | ass8.m |

```matlab
1        % Mean and standard deviation of Class 1
2        m1 = 3;
3        sd1 = 1;
4
5        % Mean and standard deviation of Class 2
6        m2 = 2;
7        sd2 = 0.3;
8
9        % Calculate Bayes discriminant points
10       [Bdp1, Bdp2] = bayespoints(m1, sd1, m2, sd2);
11
12       disp(['Bayes Discriminant Point 1: ', num2str(Bdp1)]);
13       disp(['Bayes Discriminant Point 2: ', num2str(Bdp2)]);
14
15       % Changed the standard deviation of class 2 to 1
16       sd_2 = 1;
17
18       % Calculate Bayes discriminant points
19       [Bdp1, Bdp2] = bayespoints(m1, sd1, m2, sd_2);
20
21       disp(['Bayes Discriminant Point 1: ', num2str(Bdp1)]);
22       disp(['Bayes Discriminant Point 2: ', num2str(Bdp2)]);
23
```

Command Window

New to MATLAB? See resources for Getting Started.

```
>> ass8
    5.0556   -19.2222    16.5182


    5.0556   -19.2222    16.5182    35.4581


Bayes Discriminant Point 1: 2.49
Bayes Discriminant Point 2: 1.3122
         0    1.0000   -2.5000


Bayes Discriminant Point 1: 2.5
Bayes Discriminant Point 2: 2.5
fx >>
```