

The image shows a MATLAB development environment. At the top, there are several tabs for MATLAB scripts: 'update_PLA.m', 'ass9a.m', 'ass10.m', 'ass9b.m', and 'untitled *'. The 'ass9b.m' tab is currently selected, displaying a script with 8 lines of code. The code defines a weight vector 'w', a support vector 'xp', and a query point 'x0', then calls a function 'bias_equal_margins' to calculate the bias 'b' and margin. The results are displayed using 'disp'. Below the editor is the 'Command Window' area, which contains a message for new users and the execution output of the 'ass9b' script. The output shows the calculated bias and margin values.

```
1 w = [1, 1]';  
2 xp = [0.3678, 0.3678];  
3 x0 = [0.1353, 1];  
4  
5 [b, margin] = bias_equal_margins(w, xp, x0);  
6  
7 disp(['Bias (b): ', num2str(b)]);  
8 disp(['Margin: ', num2str(margin)]);
```

Command Window

New to MATLAB? See resources for [Getting Started](#).

```
>> ass9b  
Bias (b): -0.93545  
Margin: -0.14132  
fx >>
```