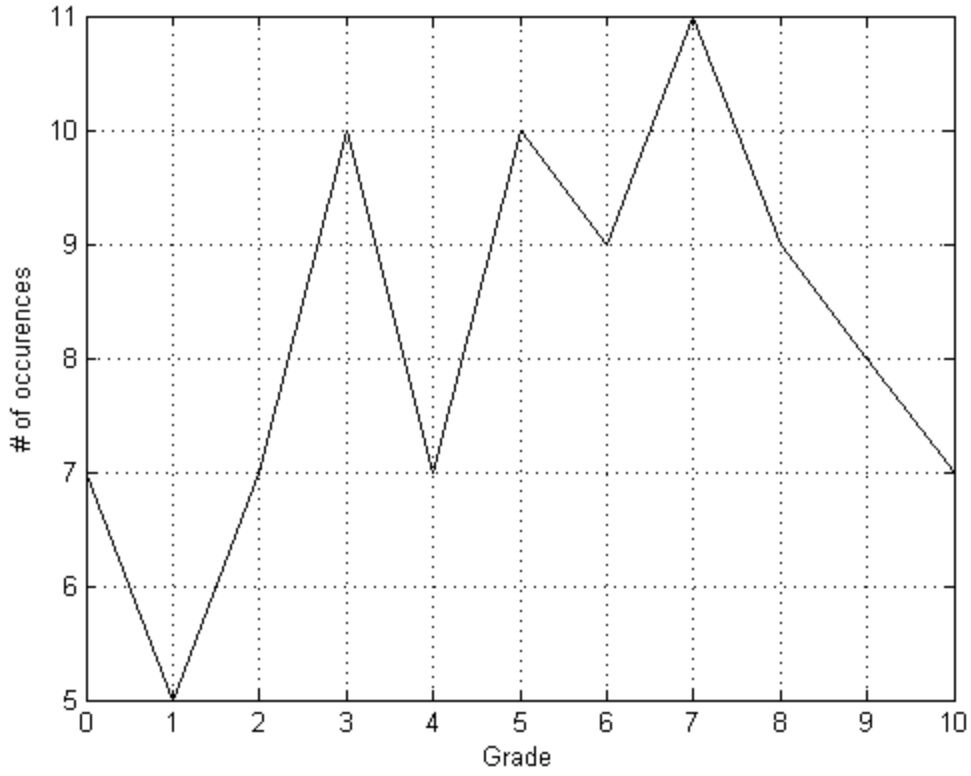
```
clear all; clc; clf; close all;
%script to plot grade distribution curve
hwgradesheets = dir('AEM313*.xlsx');
numofhomeworkgradesheets = length(hwgradesheets);
hwnumber=1;
while hwnumber<=numofhomeworkgradesheets
    plotfilename = sprintf('aem313hw%dgradeplot.png',hwnumber);
    currentgradesheet = hwgradesheets.name;
    fileid = fopen(currentgradesheet,'r');
    [grades,text,raw] = xlsread(currentgradesheet);
    countzerograges = 0; countonegrades = 0; counttwograges = 0;
    countthreegrades = 0; countfourgrades = 0; countfivegrades = 0;
    countsixgrades = 0; countsevengrades = 0; counteightgrades = 0;
    countninegrades = 0; counttengrades = 0;
    for i=1:length(grades)
        if grades(i)==0
            countzerograges = 1+countzerograges;
        elseif grades(i)==1
            countonegrades = 1+countonegrades;
        elseif grades(i)==2
            counttwograges = 1+counttwograges;
        elseif grades(i)==3
            countthreegrades = 1+countthreegrades;
        elseif grades(i)==4
            countfourgrades = 1+countfourgrades;
        elseif grades(i)==5
            countfivegrades = 1+countfivegrades;
        elseif grades(i)==6
            countsixgrades = 1+countsixgrades;
        elseif grades(i)==7
            countsevengrades = 1+countsevengrades;
        elseif grades(i)==8
            counteightgrades = 1+counteightgrades;
        elseif grades(i)==9
            countninegrades = 1+countninegrades;
        elseif grades(i)==10
            counttengrades = 1+counttengrades;
        end
    end
    numofoccurencesofagrade = [countzerograges,countonegrades,...
        counttwograges,countthreegrades,countfourgrades,countfivegrades,...
        countsixgrades,countsevengrades,counteightgrades,...
        countninegrades,counttengrades];
    handle = figure('Name','HW Grades');
    plot(0:1:10,numofoccurencesofagrade,'k')
    grid on
    xlabel('Grade')
    ylabel('# of occurences')
    %title(currentgradesheet)
    saveas(handle,plotfilename);
    hwnumber = 1+hwnumber;
end
```



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