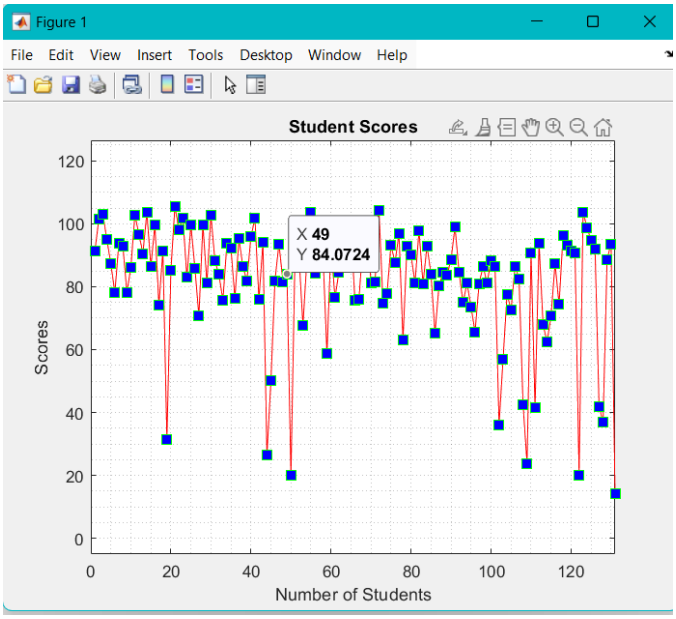
Group 15

ENG 220

Professor Jordan

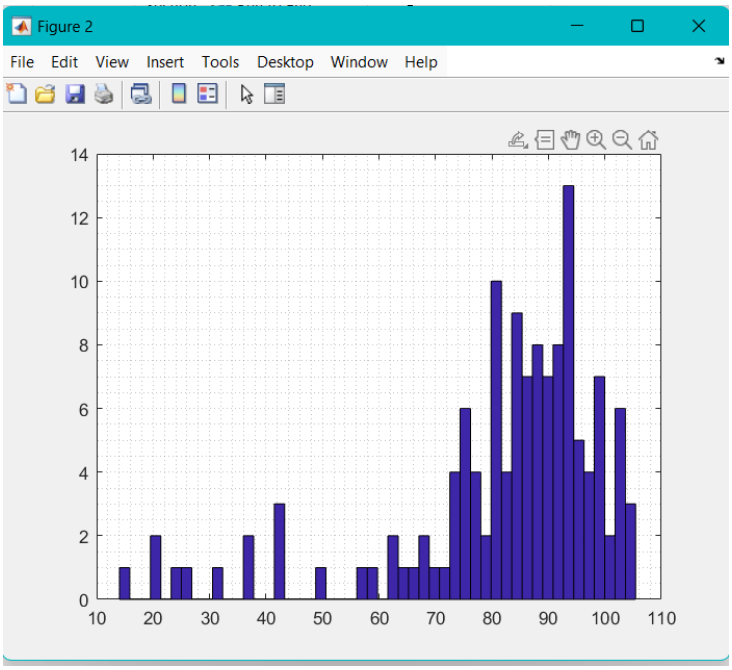
September 26, 2024

Class 2 Assignment

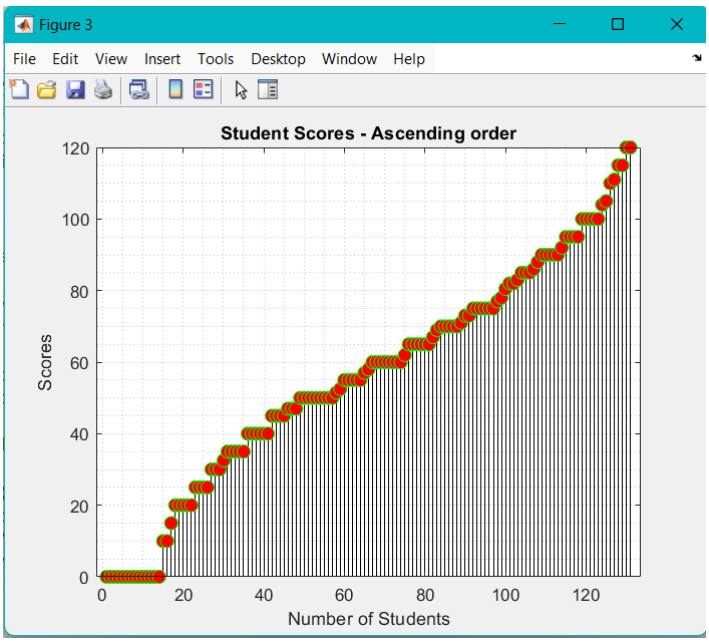


Original 9a code outputs

<- Details the overall scores for all students



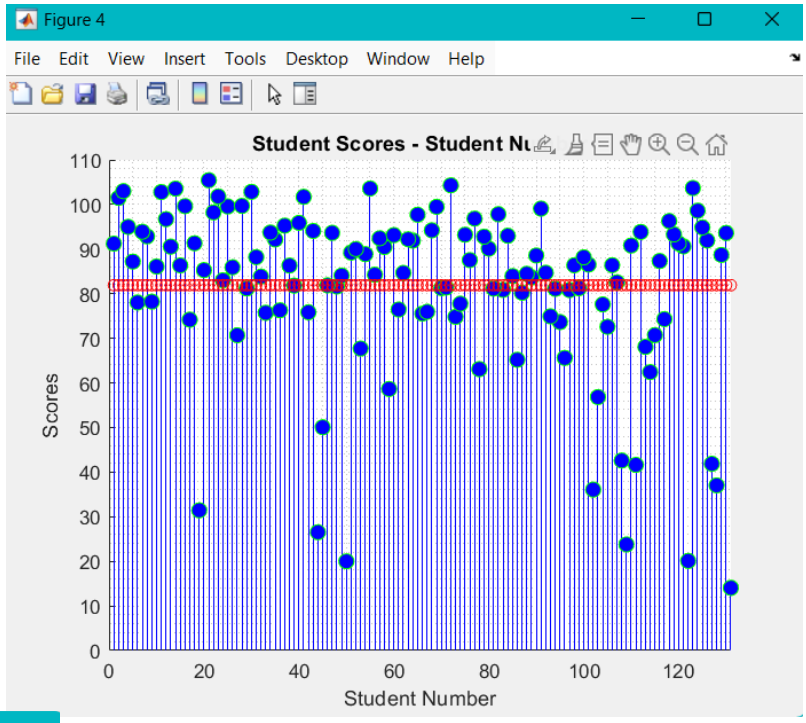
^ Details the grading curve of all students



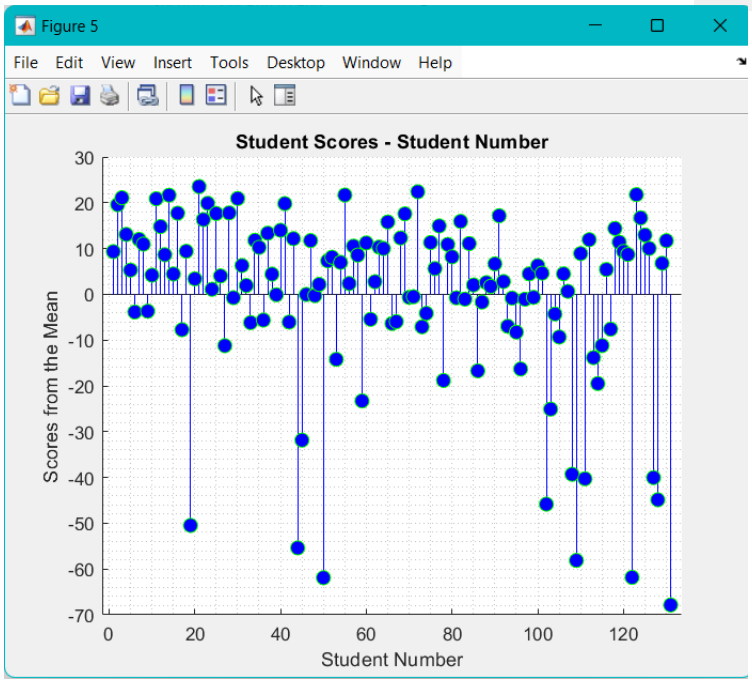
<- Displays the scores in ascending order

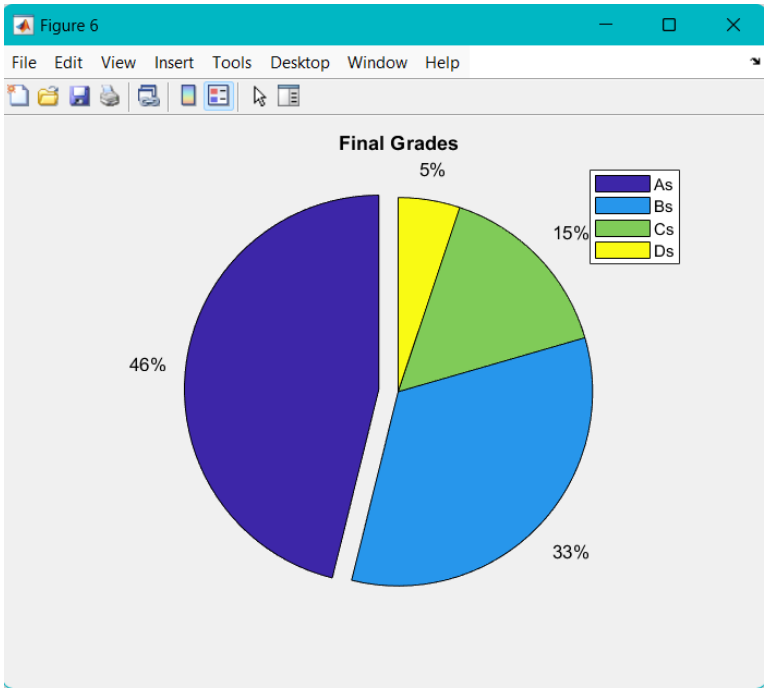
Original 9a code outputs

Displays students grades with the average highlighted ->



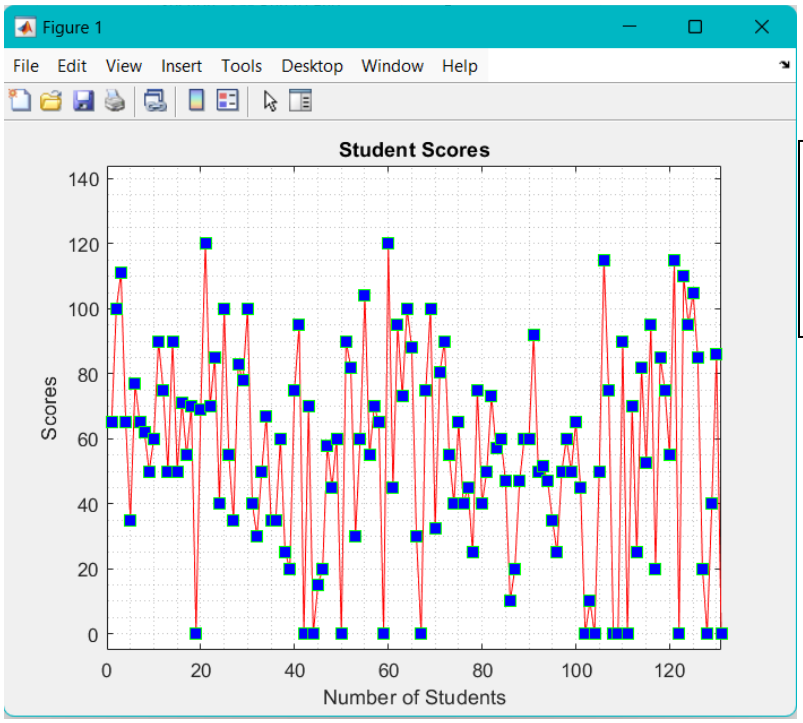
Displays the student scores around the mean



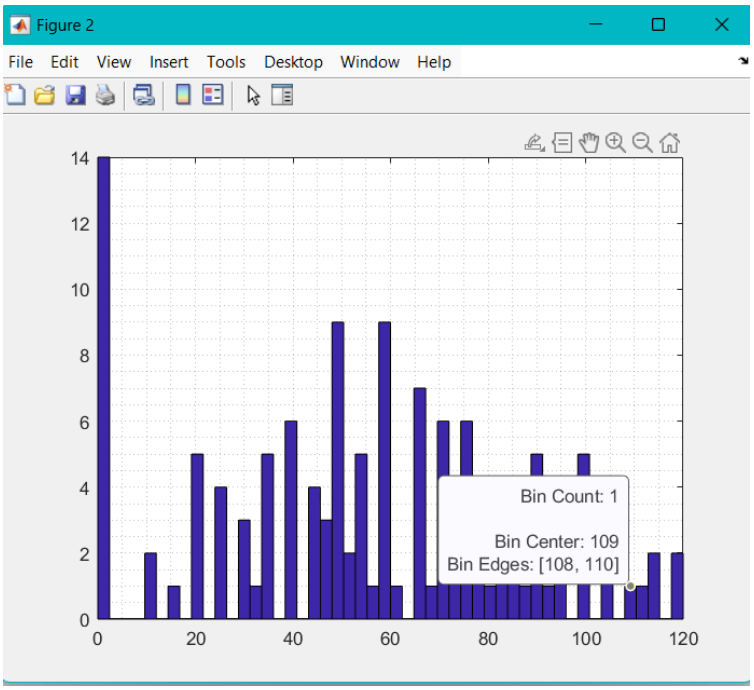


Pie chart of the letter grades from students

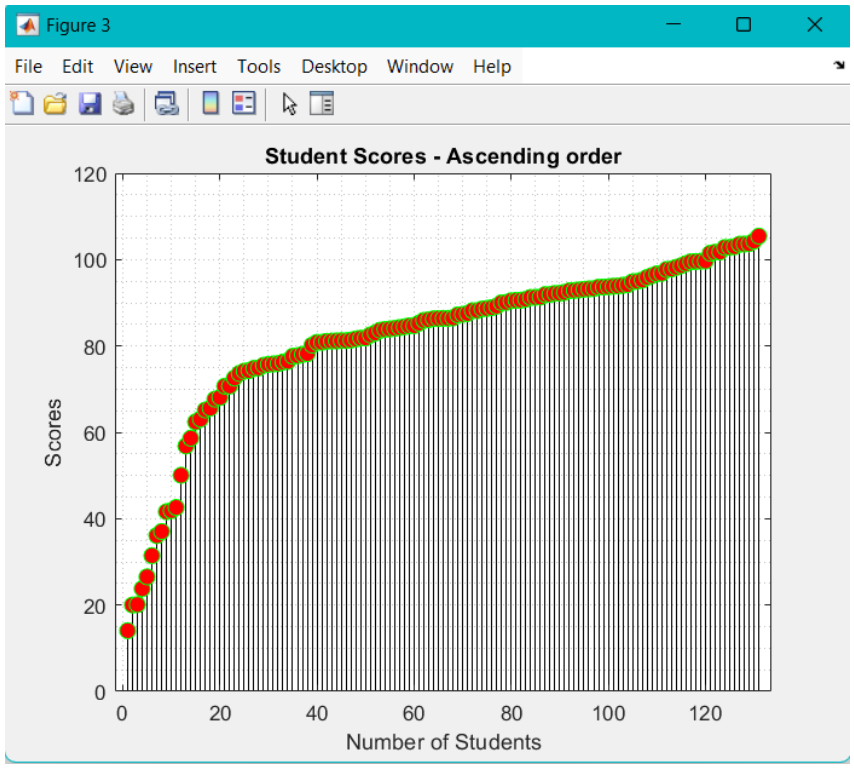
Modified 9a code outputs



<- Details the overall scores for all students with the modified code to only represent column 11

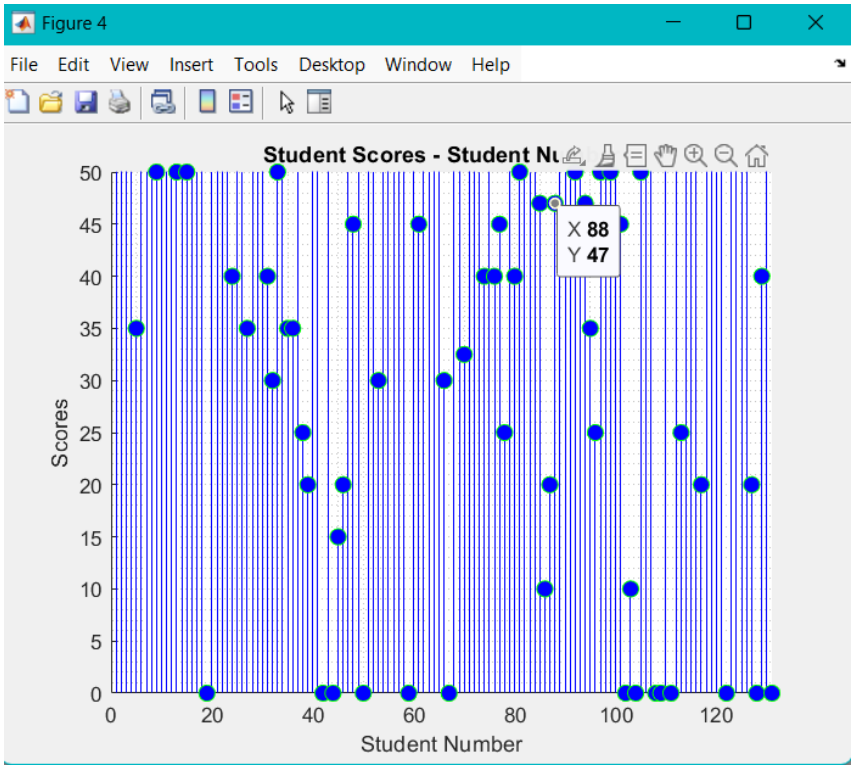


^ Details the grading curve of all students with the modified code to only represent column 11

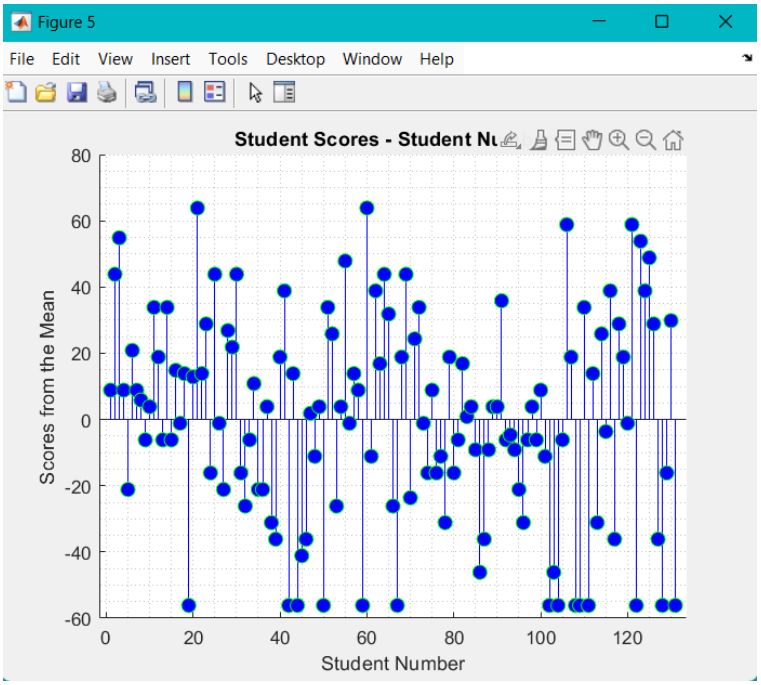


<- Displays the scores in ascending order with the modified code to only represent column 11

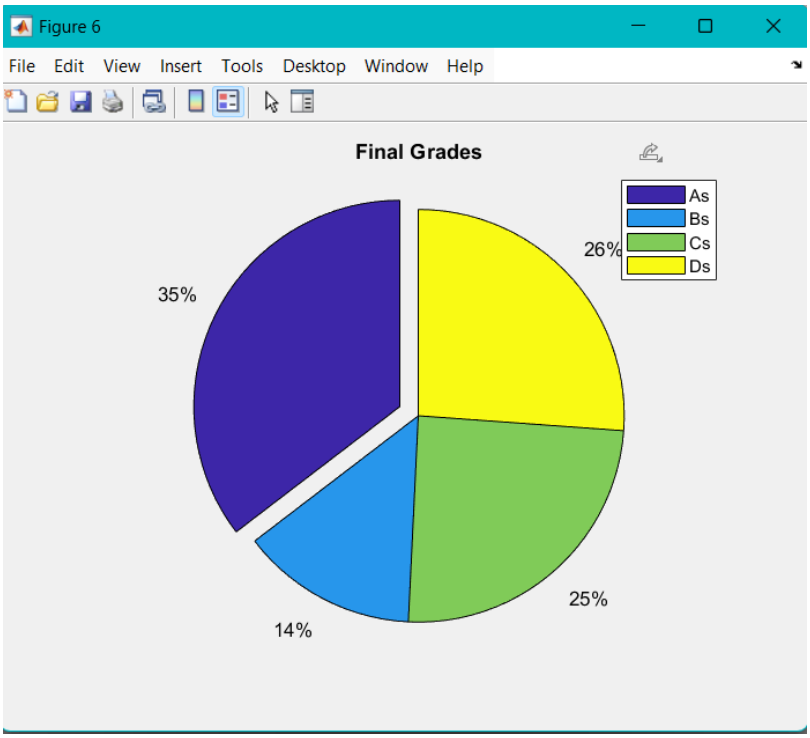
Modified 9a code outputs



< Displays students grades with the average highlighted with the modified code to only represent column 11

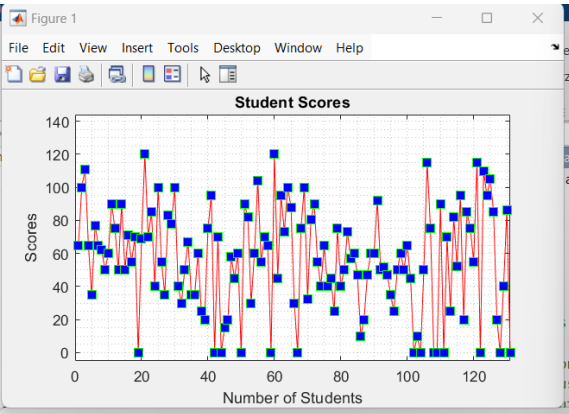


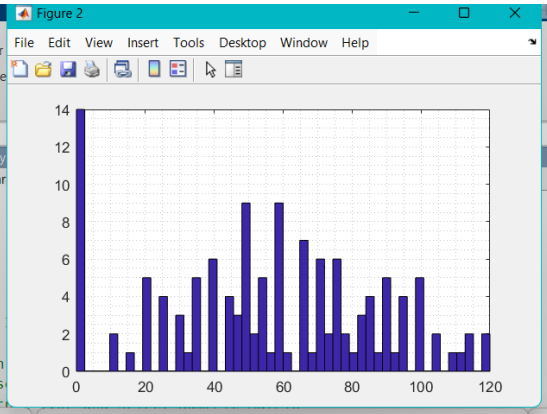
^ Displays the student scores around the mean with the modified code to only represent column 11

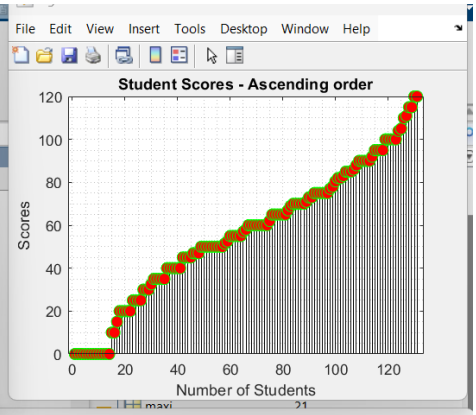


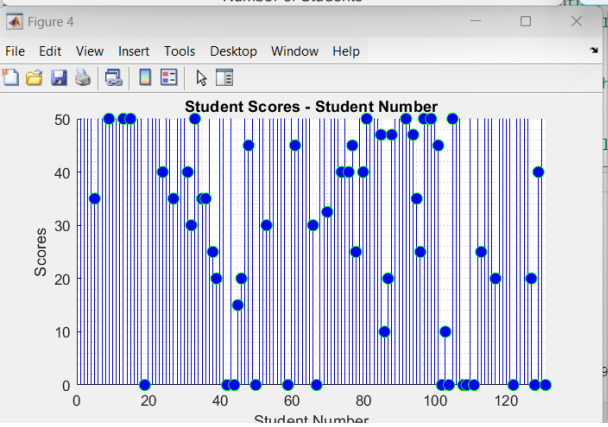
< Pie chart of the letter grades from students with the modified code to only represent column 11

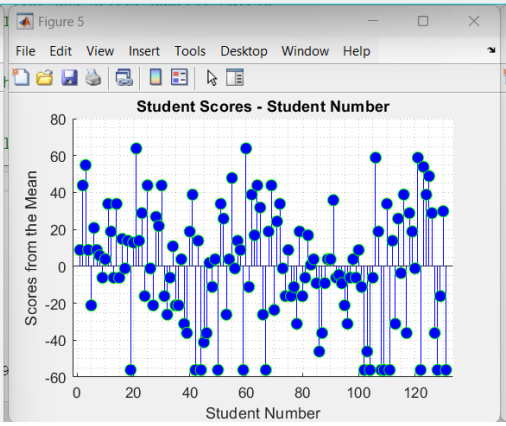
Modified 9b code outputs

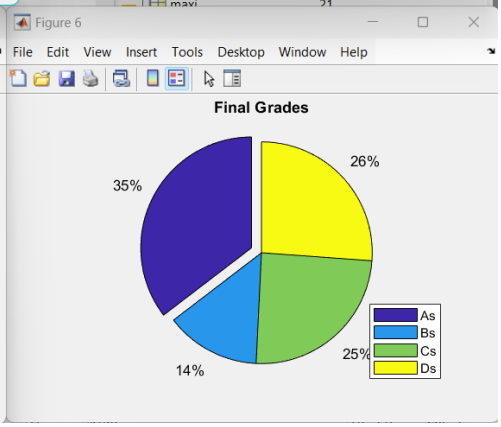












Modified 9b to only take the final scores from column 11 and represent the data to show the average, the mean, the pie chart of final grades, and the standard deviation.

9a code sample

Editor - C:\Users\Morgan\Downloads\arrays_final_scores_9a_1.m

arrays_final_scores_9a_1.m | read_excel_file_process_scores.m

```
11  % - with your mouse select all rows and columns of data
12  % - then go to Output Type and select Numeric Matrix
13  % - lastly, click on Import Selection button
14  % - then in Workspace click on finalscoresexample matrix to display the data
15  %
16  % open in Workspace the matrix finalscoresexample and by hand
17  % change NaN with the number 0
18  %
19  % save new data to disk "newdatafile"
20  % get size of matrix
21  %
22  save newdatafile finalscoresexample
23  size (finalscoresexample)
24  %
25  % read file newdatafile.mat
26  %load newdatafile
27  %
28  disp('>>> END of arrays_scores_9a.m <<<')
29
```

Command Window

```
ans =

   131    11
```

9b code sample

```
128  ss60 = (col11>=60 & col11<70);
129  DS = length(s60_70)
130  S60 = ss60 .* col11;
131  %
132  % for 2D matrices
133  %
134  %[i90,j90] = find(col11>90);
135  %[i80,j80] = find(col11>80 & col11<90);
136  %[i70,j70] = find(col11>70 & col11<80);
137  %[i60,j60] = find(col11>60 & col11<70);
138  %
139  figure(6)
140  data = [AS BS CS DS];
141  explode = [1 0 0 0 ];
142  pie(data, explode);
143  title('Final Grades');
144  legend('As','Bs','Cs','Ds','Location','Best');
145  %
146  disp('>>> END of arrays_final_scores_9b.m <<<')
147
```

Command Window

```
    18


DS =

     6
```