

## Class Assignment 3

arrays\_final\_scores\_9a.m

The data highlighted, through row 135, was imported into MATLAB.

IMPORTVIEW

Range: B5:L135

Variable Names Row: 1

SELECTION

final\_scores\_example.xlsm

Output Type:

Numeric Matrix

Text Options

Replace

unimportable cells with

0.0

-

+

Import Selection

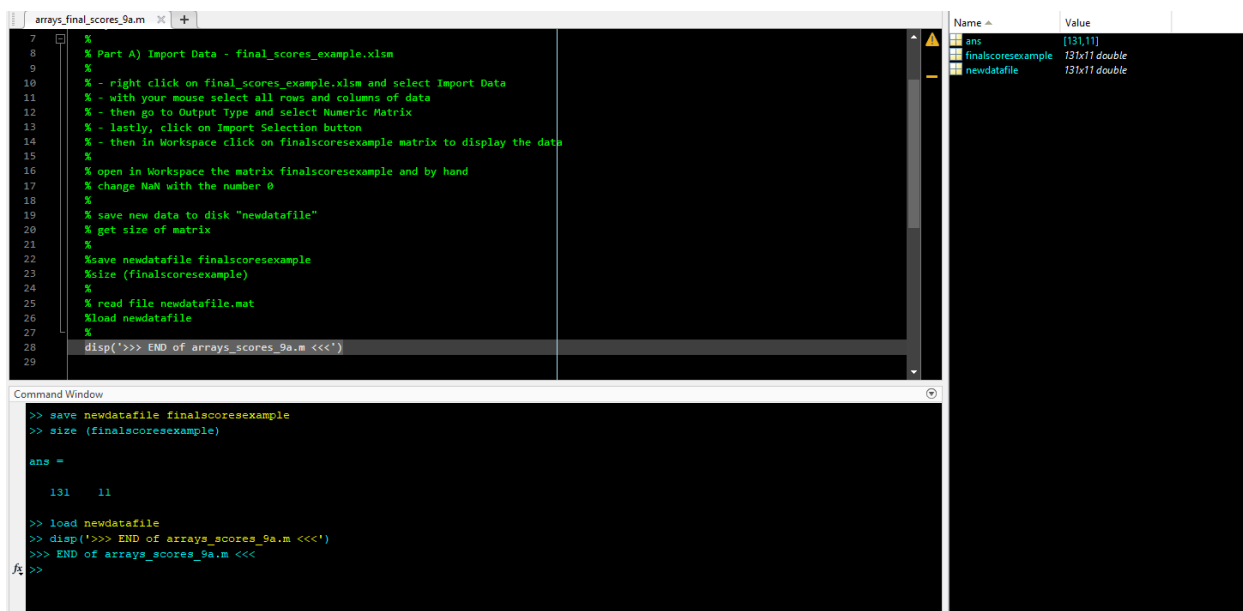
IMPORT

IMPORTED DATA

UNIMPORTABLE CELLS

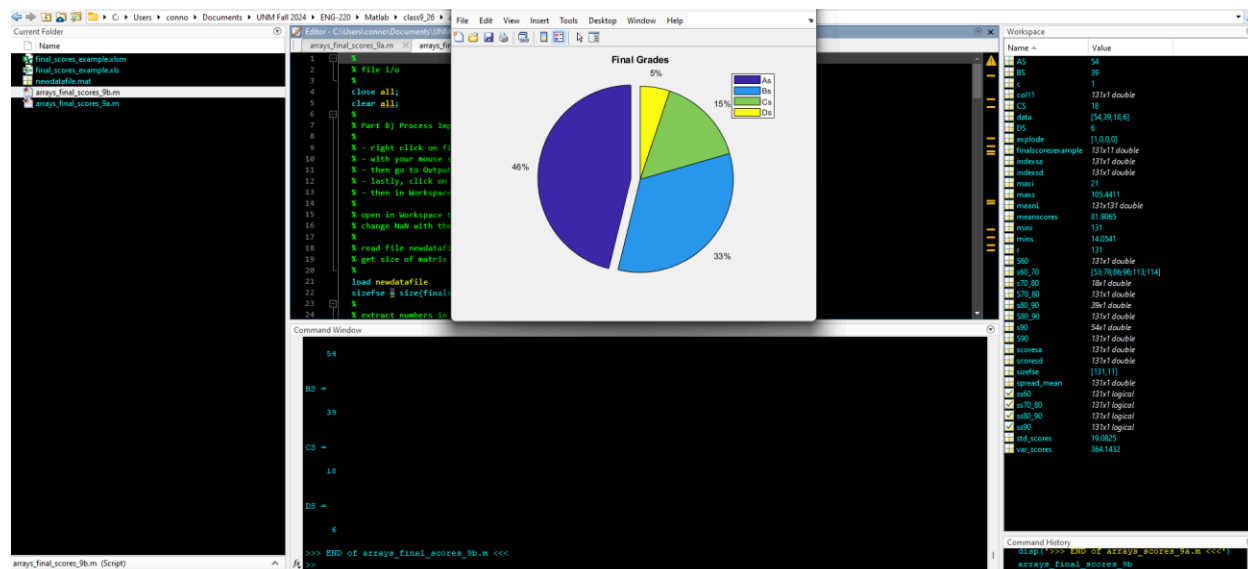
	A	B	C	D	E	F	G	H	I	J	K	L
		finalscoresexample										
1	NAME	QUIZ1	QUIZ2	EXAM1	QUIZ3	QUIZ4	EXAM2	POINTS	LAB pts	TOTAL pts	% of POINTS	% pf POINTS
2		Points	Points	Points	Points	Points	Points	max			max STUDE...	max STUDE...
3		100	100	150	100	100	150	700	300	1000	950	925
4												
5	STUDENT	85	68.3300	125	89.5800	65	125	557.9100	286	843.9100	88.8326	91.2335
6	STUDENT	90	83	150	89.7900	100	126	638.7900	300	938.7900	98.8200	101.4908
7	STUDENT	80	97	150	89.7900	111	125	652.7900	300	952.7900	100.2937	103.0043
8	STUDENT	90	85	150	99.5800	65	95	584.5800	294	878.5800	92.4821	94.9816
9	STUDENT	80	88.8300	125	88.7500	35	104	521.5800	285	806.5800	84.9032	87.1978
10	STUDENT	60	75	85	69.8500	77	84	450.8500	271	721.8500	75.9842	78.0378
11	STUDENT	100	78	120	99.5800	65	121	583.5800	285	868.5800	91.4295	93.9005
12	STUDENT	80	98.3300	147.5000	79.1600	62	95	561.9900	297	858.9900	90.4200	92.8638
13	STUDENT	70	84	70	58.5400	50	98	430.5400	293	723.5400	76.1621	78.2205
14	STUDENT	75	80.3300	112.5000	89.5300	60	104	521.3600	275	796.3600	83.8274	86.0930
15	STUDENT	94	84.5000	147.5000	99.7900	90	135	650.7900	300	950.7900	100.0832	102.7881
16	STUDENT	85	81	130	98.5900	75	125	594.5900	300	894.5900	94.1674	96.7124
17	STUDENT	70	90.5000	137.5000	99.6800	50	107	554.6800	283	837.6800	88.1768	90.5600
18	STUDENT	85	98.3300	150	99.5800	90	135	657.9100	300	957.9100	100.8326	103.5578
19	STUDENT	76	88	120	68.7500	50	104	506.7500	292	798.7500	84.0789	86.3514
20	STUDENT	95	83.8300	150	99.2100	71	134.5000	633.5400	288	921.5400	97.0042	99.6259
21	STUDENT	75	55.5000	120	39.5800	55	65	410.0800	276	686.0800	72.2189	74.1708
22	STUDENT	93	86.3300	90	99.3200	70	106	544.6500	300	844.6500	88.9105	91.3135
23	STUDENT	72	89.1600	102.5000	27.0800			290.7400		290.7400	44.7292	31.4314
24	STUDENT	60	74.3300	120	69.5800	69	109	501.9100	287	788.9100	83.0432	85.2876
25	STUDENT	90	91.3300	150	90	120	134	675.3300	300	975.3300	102.6663	105.4411
26	STUDENT	80	75.8300	150	98.8000	70	145	619.6300	289	908.6300	95.6453	98.2303
27	STUDENT	95	86.3300	150	95.2600	85	130	641.5900	300	941.5900	99.1147	101.7935
28	STUDENT	86	72	140	86.8700	40	47	471.8700	296	767.8700	80.8284	83.0130
29	STUDENT	94	80	130	98.9500	100	126	628.9500	292	920.9500	96.9421	99.5622
30	STUDENT	85	88.3300	125	99.4700	55	61	513.8000	281	794.8000	83.6632	85.9243
31	STUDENT	55	87	110	89.3700	35	105.5000	481.8700	172	653.8700	68.8284	70.6886
32	STUDENT	90	83.3300	150	99.2700	83	132.5000	638.1000	284	922.1000	97.0632	99.6865

## Class Assignment 3

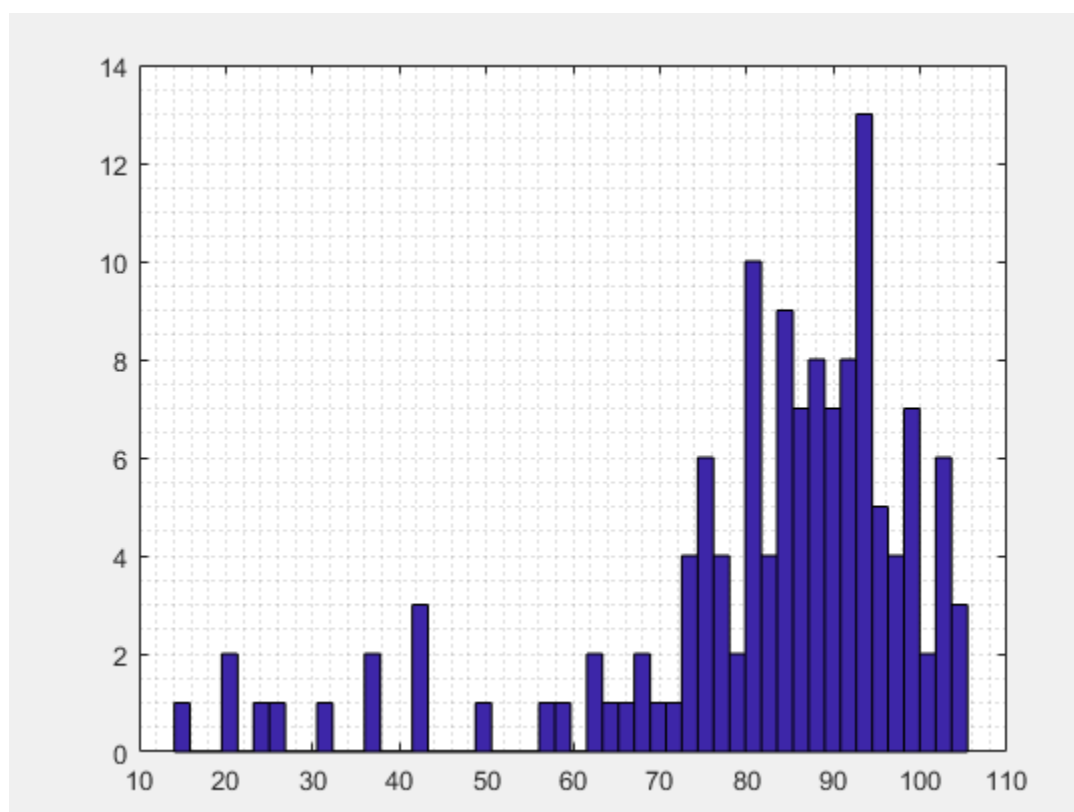
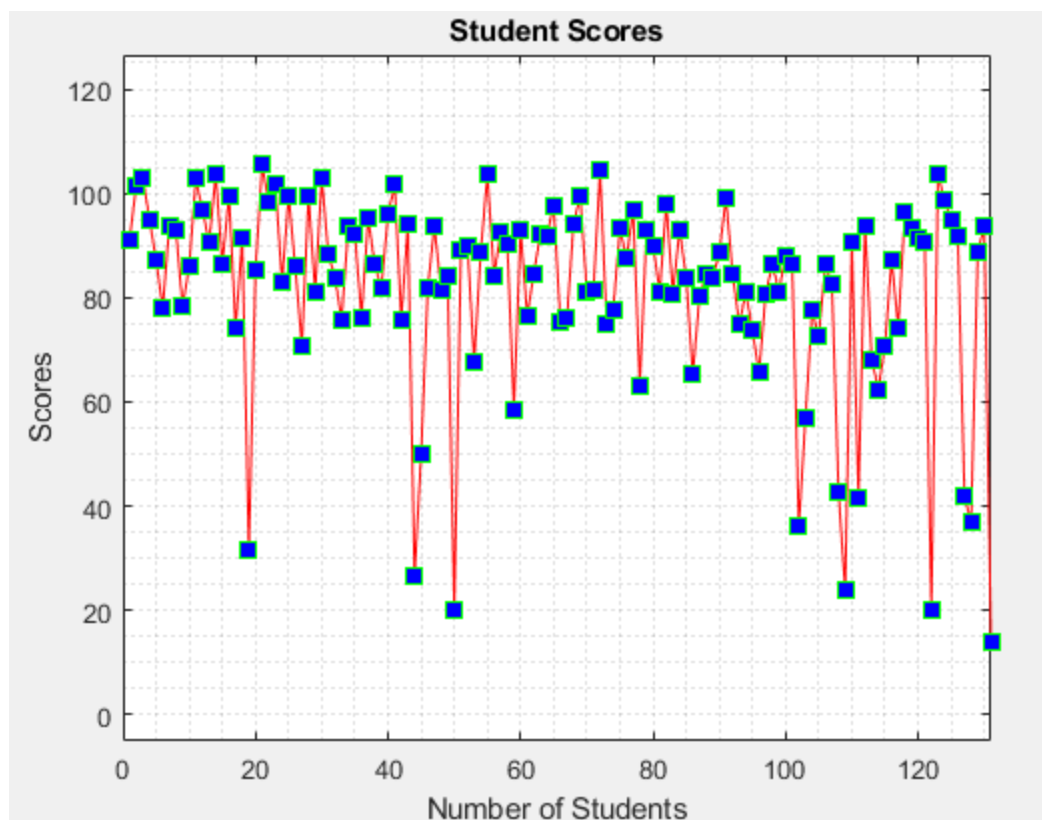


arrays\_final\_scores\_9b.m

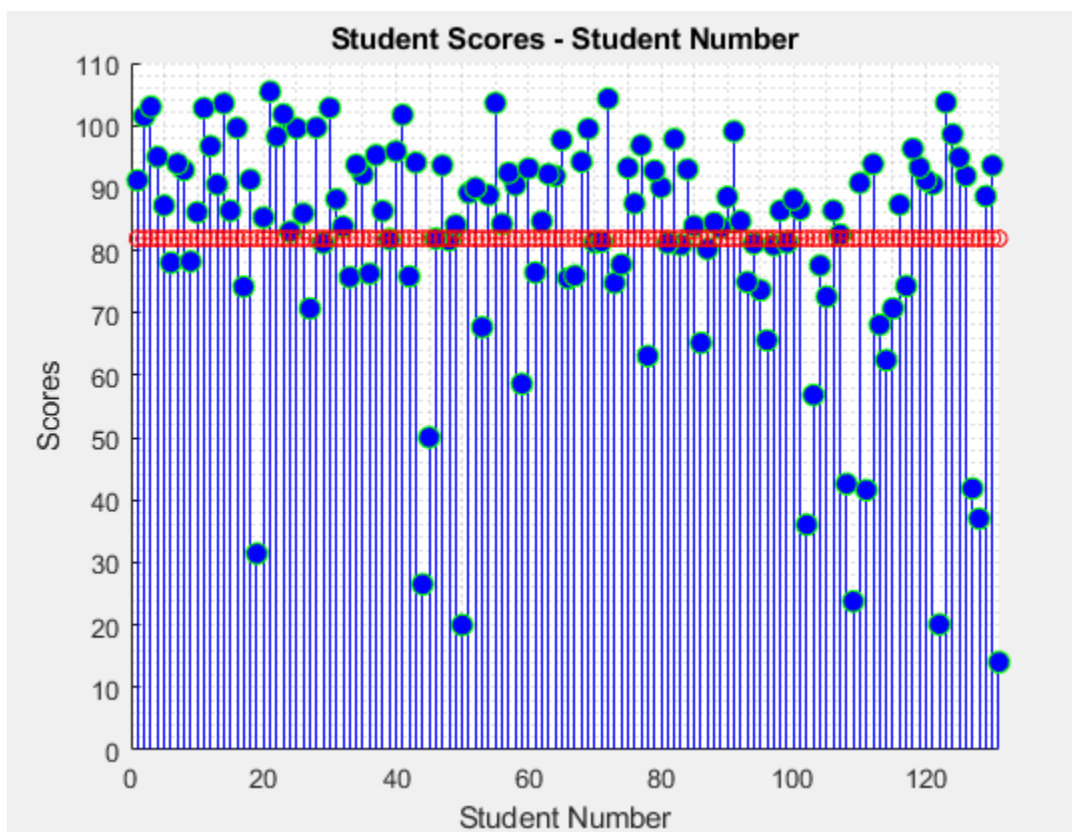
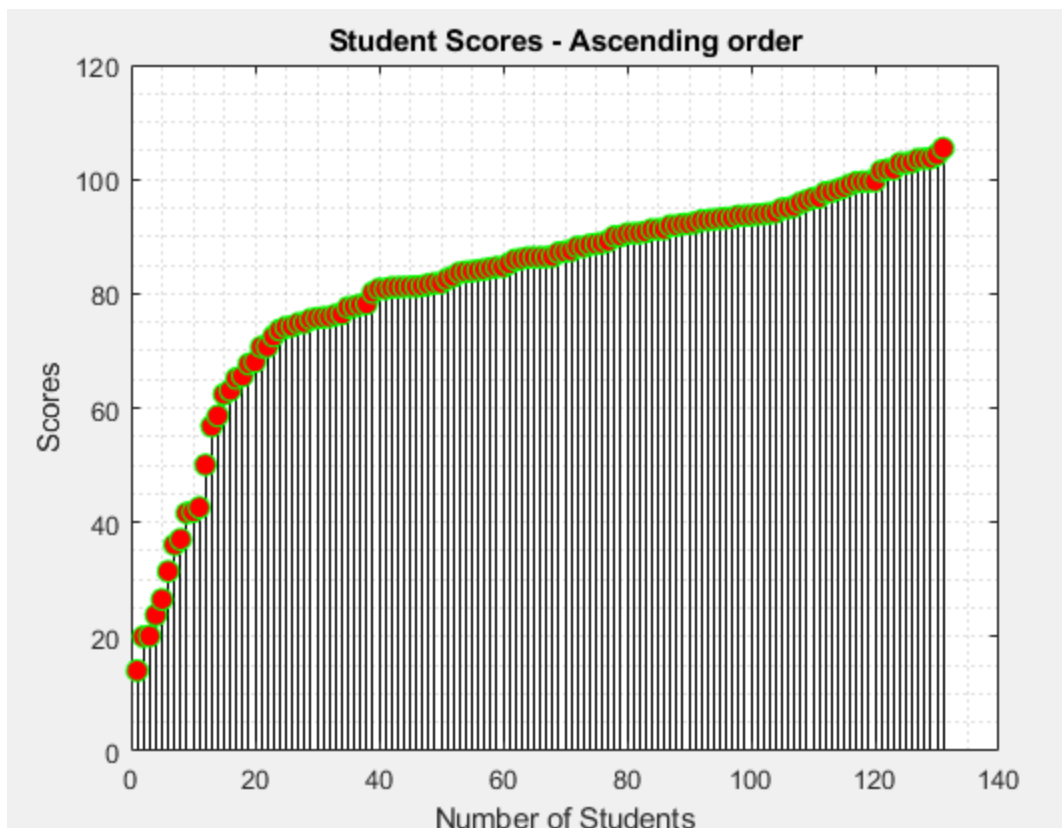
Next, `arrays_final_scores_9b.m` was run, producing the following output:



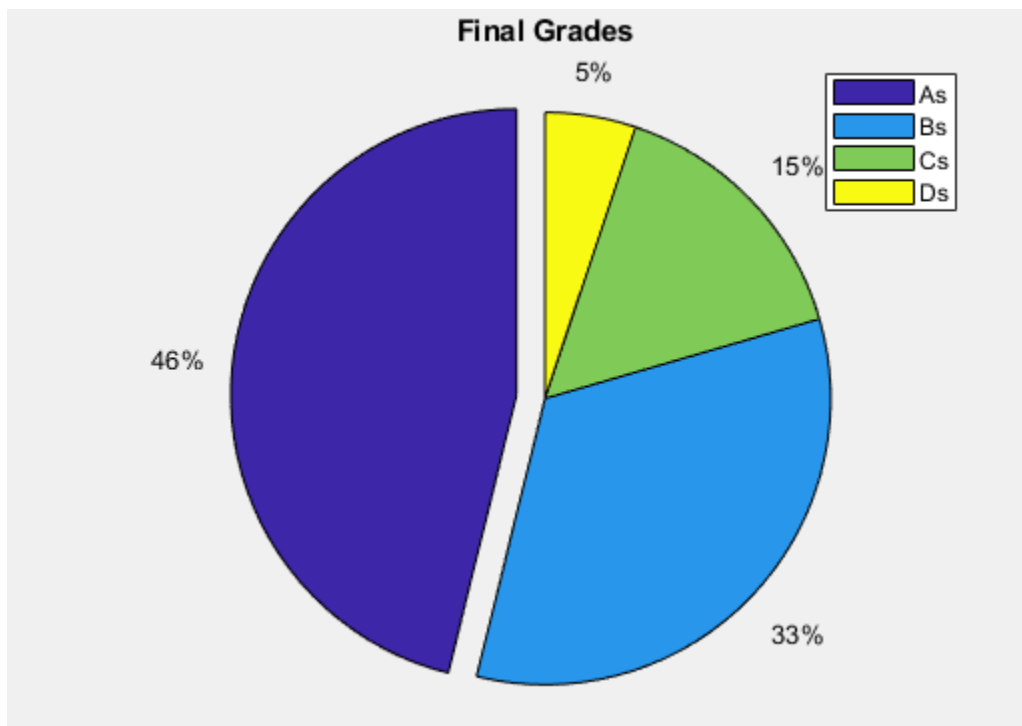
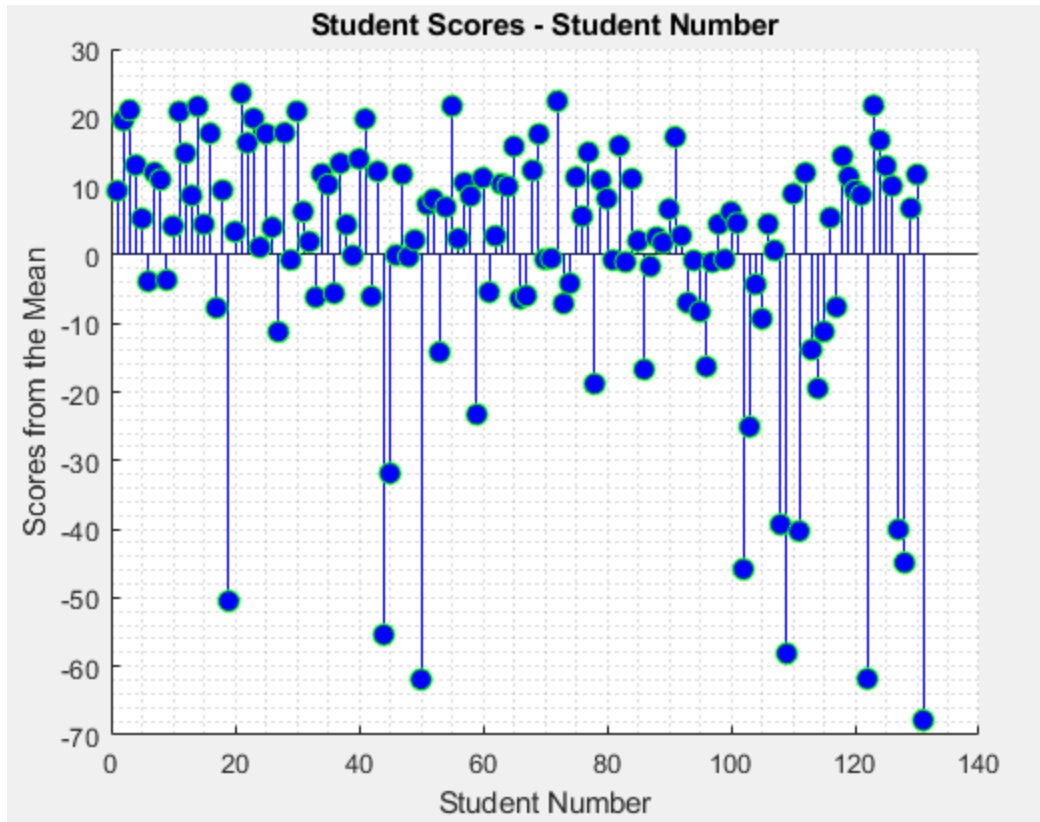
## Class Assignment 3



## Class Assignment 3



## Class Assignment 3



## Class Assignment 3

Modified arrays\_final\_scores\_9b.m

The data in only column 11, rows 5 through 35 of the excel file were imported into MATLAB.

IMPORTVIEW

Range: L5:L135

Variable Names Row: 1

Output Type:

Replace

unimportable cells with

0.0

Import Selection

IMPORT

SELECTION

IMPORTED DATA

UNIMPORTABLE CELLS

final\_scores\_example.xlsx

	A	B	C	D	E	F	G	H	I	J	K	L
	finalscoresexample											
1	NAME	QUIZ1	QUIZ2	EXAM1	QUIZ3	QUIZ4	EXAM2	POINTS	LAB pts	TOTAL pts	% of POINTS	% pf POINTS
2		Points	Points	Points	Points	Points	Points	max			max STUDE...	max STUDE...
3		100	100	150	100	100	150	700	300	1000	950	925
4												
5	STUDENT	85	68.3300	125	89.5800	65	125	557.9100	286	843.9100	88.8326	91.2335
6	STUDENT	90	83	150	89.7900	100	126	638.7900	300	938.7900	98.8200	101.4908
7	STUDENT	80	97	150	89.7900	111	125	652.7900	300	952.7900	100.2937	103.0043
8	STUDENT	90	85	150	99.5800	65	95	584.5800	294	878.5800	92.4821	94.9816
9	STUDENT	80	88.8300	125	88.7500	35	104	521.5800	285	806.5800	84.9032	87.1978
10	STUDENT	60	75	85	69.8500	77	84	450.8500	271	721.8500	75.9842	78.0378
11	STUDENT	100	78	120	99.5800	65	121	583.5800	285	868.5800	91.4295	93.9005
12	STUDENT	80	98.3300	147.5000	79.1600	62	95	561.9900	297	858.9900	90.4200	92.8638
13	STUDENT	70	84	70	58.5400	50	98	430.5400	293	723.5400	76.1621	78.2205
14	STUDENT	75	80.3300	112.5000	89.5300	60	104	521.3600	275	796.3600	83.8274	86.0930
15	STUDENT	94	84.5000	147.5000	99.7900	90	135	650.7900	300	950.7900	100.0832	102.7881
16	STUDENT	85	81	130	98.5900	75	125	594.5900	300	894.5900	94.1674	96.7124
17	STUDENT	70	90.5000	137.5000	99.6800	50	107	554.6800	283	837.6800	88.1768	90.5600
18	STUDENT	85	98.3300	150	99.5800	90	135	657.9100	300	957.9100	100.8326	103.5578
19	STUDENT	76	88	120	68.7500	50	104	506.7500	292	798.7500	84.0789	86.3514
20	STUDENT	85	82.8300	150	88.7100	71	124.5000	633.5400	288	871.5400	87.0042	88.6750

## Class Assignment 3

```

Command Window

>> save newdatafile finalscoresexample1
>> size (finalscoresexample1)

ans =

    131     1

fx >>

```

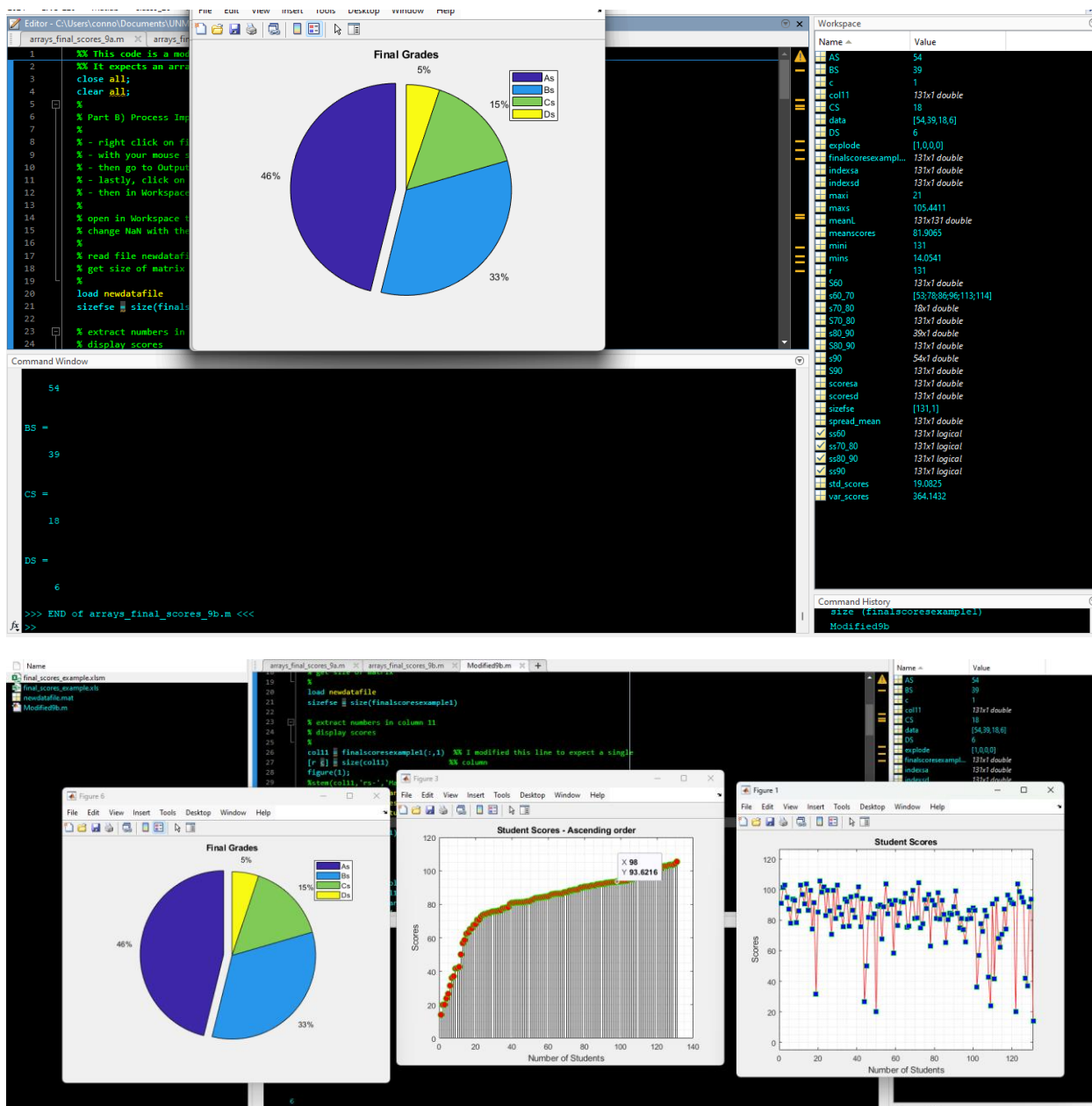
arrays\_final\_scores\_9b.m was then modified to accept the resulting 131x1 array.

```

arrays_final_scores_9a.m  arrays_final_scores_9b.m  Modified9b.m  +
18 % get size of matrix
19 %
20 load newdatafile
21 sizefse = size(finalscoresexample1)
22
23 % extract numbers in column 11
24 % display scores
25 %
26 col11 = finalscoresexample1(:,1) %% I modified this line to expect a single
27 [r c] = size(col11) %% column
28 figure(1);
29 %stem(col11,'rs-','MarkerFaceColor','b','MarkerSize',8,'MarkerEdgeColor','g');
30 plot(col11,'rs-','MarkerFaceColor','b','MarkerSize',8,'MarkerEdgeColor','g');
31 title('Student Scores');
32 xlabel('Number of Students');
33 ylabel('Scores');
34 axis([0 length(col11) -5 max(col11)*1.2]);
35 grid minor
36 %
37 % find mean
38 %
39 meanscores = mean(col11);
40 var_scores = var(col11);
41 std_scores = sqrt(var_scores);
42

```

## Class Assignment 3





## Class Assignment 3

