

9A) Code

FILE NAVIGATE CODE ANALYZE SECTION RUN

Current Folder: C:\Users\sanch\OneDrive\Desktop\School\Fall24\ENG220\MatLab

Editor - read_excel_file_process_scores.m

```

1 %
2 % file i/o
3 %
4 close all; %Close all graphic windows
5 clear all; %Clear all variables
6 clc %Clear Command Window
7 %
8 % Part B) Process Imported Data - final_scores_example.xlsx
9 %
10 % - right click on final_scores_example.xlsx and select Import Data
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 % read file newdatafile.mat
20 % get size of matrix
21 %
22 load newdatafile
23 sizefs = size(finalscoresexample)
24 %
25 % extract numbers in column 11
26 % display scores
27 %
28 col11 = finalscoresexample(:,11)
29 [r c] = size(col11)
30 figure(1);

```

Workspace

Name	Value
AS	54
BS	39
c	1
col11	131x1 double
CS	18
data	[54,39,18,6]
DS	6
explode	[1,0,0]
finalscoresexample	131x11 double
indexsa	131x1 double
indexsd	131x1 double
maxi	21
maxs	105.4411
meanL	131x131 double
meanscores	81.9065
mini	131
mins	14.0541
r	131
S60	131x1 double
s60_70	[53;78;86;96;113;114]
s70_80	18x1 double
S70_80	131x1 double
s80_90	39x1 double
S80_90	131x1 double
s90	54x1 double
S90	131x1 double
scoresa	131x1 double
scoresd	131x1 double
sizefs	[131,11]
spread_mean	131x1 double
ss60	131x1 logical
ss70_80	131x1 logical
ss80_90	131x1 logical
ss90	131x1 logical
std_scores	19.0825
var_scores	364.1432

Command Window

```

39
CS =
    18
DS =
     6
>>> END of arrays_final_scores_9b.m <<<
>>

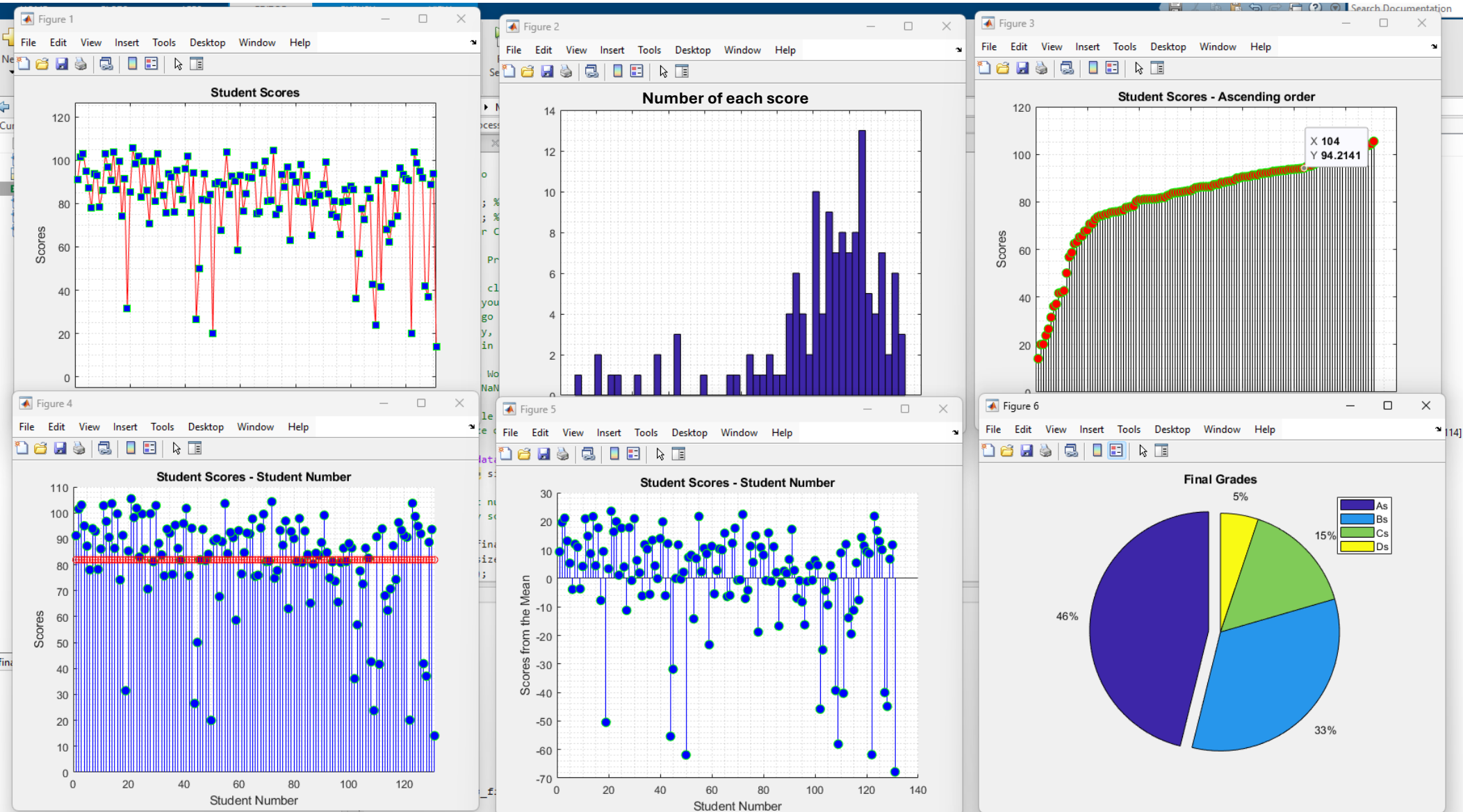
```

final_scores_example.xlsx (Microsoft Excel Macro-Enabled Worksheet)

No details available

Zoom: 100% UTF-8 LF script Ln 6 Col 26

9A) Figures



9B) Code

Current Folder

Name ▾

read_excel_file_process_scores.m
newdatafile.mat
final_scores_example.xlsm
arrays_final_scores_9b.m
arrays_final_scores_9a (1)-1.m
arrays_final_scores_9a.m
arrays_experiment_csv_7b.m

Editor - C:\Users\sanch\OneDrive\Desktop\School\Fall24\ENG220\MatLab\arrays_final_scores_9b.m

arrays_final_scores_9a.m × read_excel_file_process_scores.m × arrays_final_scores_9b.m × +

```

1 %
2 % file i/o
3 %
4 %close all;
5 %clear all;
6 %
7 % Part B) Process Imported Data - final_scores_example.xlsm
8 %
9 % - right click on final_scores_example.xlsm and select Import Data
10 % - with your mouse select all rows and columns of data
11 % - then go to Output Type and select Numeric Matrix
12 % - lastly, click on Import Selection button
13 % - then in Workspace click on finalscoresexample matrix to display the data
14 %
15 % open in Workspace the matrix finalscoresexample and by hand
16 % change NaN with the number 0
17 %
18 % read file newdatafile.mat
19 % get size of matrix
20 %
21 load newdatafile
22 sizefs = size(finalscoresexample)
23 %
24 % extract numbers in column 11
25 % display scores
26 %
27 col11 = finalscoresexample(:,1)
28 [r c] = size(col11)
29 figure(1);
30 %stem(col11,'rs-','MarkerFaceColor','b','MarkerSize',8,'MarkerEdgeColor','g');
```

Workspace

Name	Value
AS	54
BS	39
c	1
col11	131x1 double
CS	18
data	[54,39,18,6]
DS	6
explode	[1,0,0]
finalscoresexample	131x1 double
indexsa	131x1 double
indexsd	131x1 double
maxi	21
maxs	105.4411
meanL	131x131 double
meanscores	81.9065
mini	131
mins	14.0541
r	131
s60	131x1 double
s60_70	[53;78;86;96;113;114]
s70_80	18x1 double
s70_80	131x1 double
s80_90	39x1 double
s80_90	131x1 double
s90	54x1 double
s90	131x1 double
scoresa	131x1 double
scoresd	131x1 double
sizefs	[131,1]
spread_mean	131x1 double
ss60	131x1 logical
ss70_80	131x1 logical
ss80_90	131x1 logical
ss90	131x1 logical
std_scores	19.0825
var_scores	364.1432

Command Window

```

39
CS =
    18
DS =
     6
>>> END of arrays_final_scores_9b.m <<<
fx >>
```

Details ▾

Select a file to view details

Zoom: 100% | UTF-8 | LF | script | Ln 27 | Col 31

9B) Figures

