Week 2 Assignment

1. **In 2-3 paragraphs and on your own words, describe Missing data and how to deal with it.**

   Missing data in Multivariate data analysis refers not stored of values in the data set.
   This missing of data caused due to several reasons
   - Mainly Technical Errors.
   - No responses in surveys.
   - Equipment malfunction.
   - By lost files.

Firstly, identifying of errors missing values, Randomness of the Missing Data Processes and Select the Imputation Method. This missing of data causes incorrect result and inaccurate result by these we get many defects.

There are many ways of dealing with Missing Values in Multivariate Data Analysis by using deletion, also by removing the missing data, filing the missing data with the estimated values, and modelling.
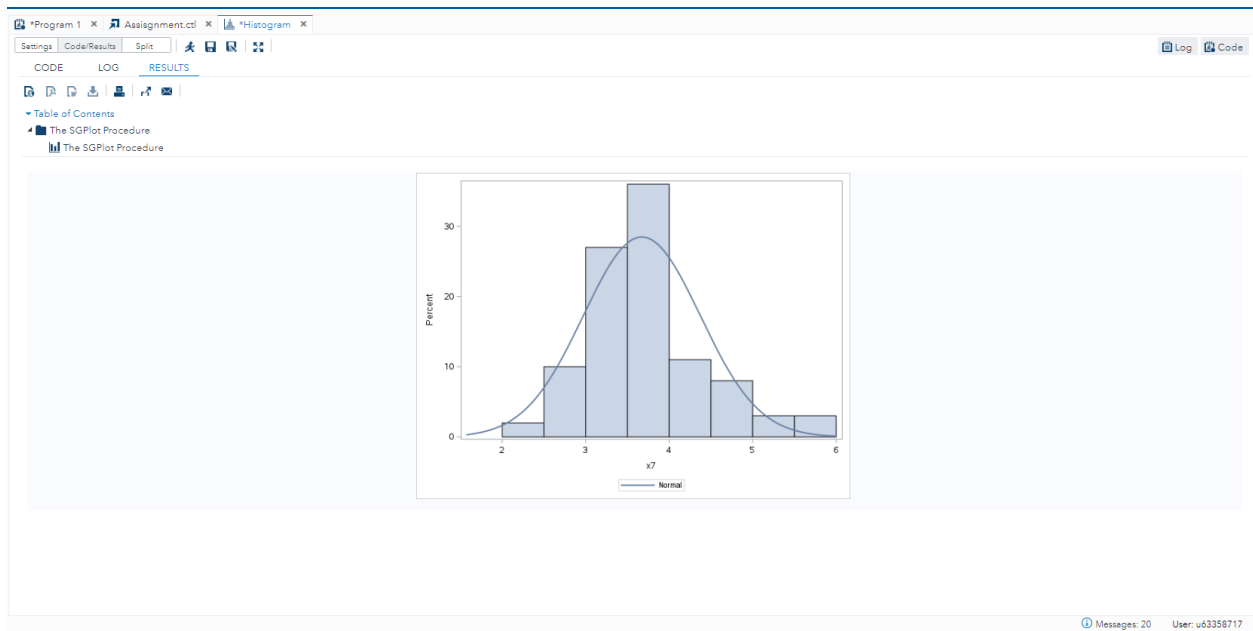
Modeling approach is by guessing the missing values based on existing values in the data set is known as Modeling approach.

2. **For the data set associated with this homework (HBAT), find the following:**
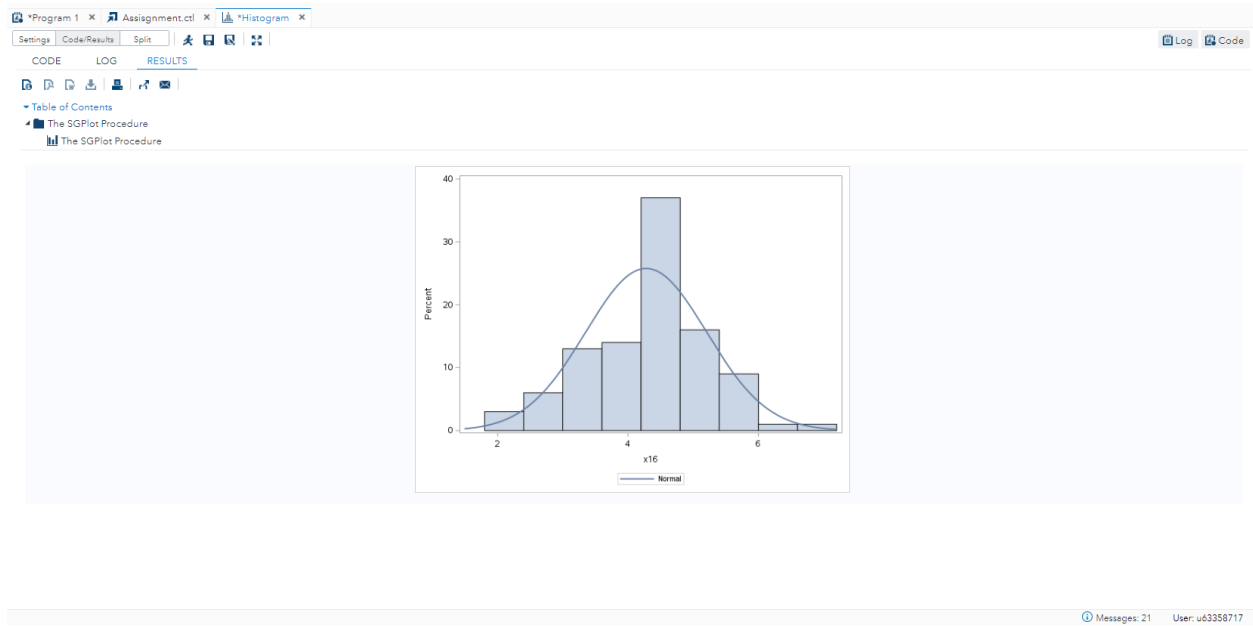
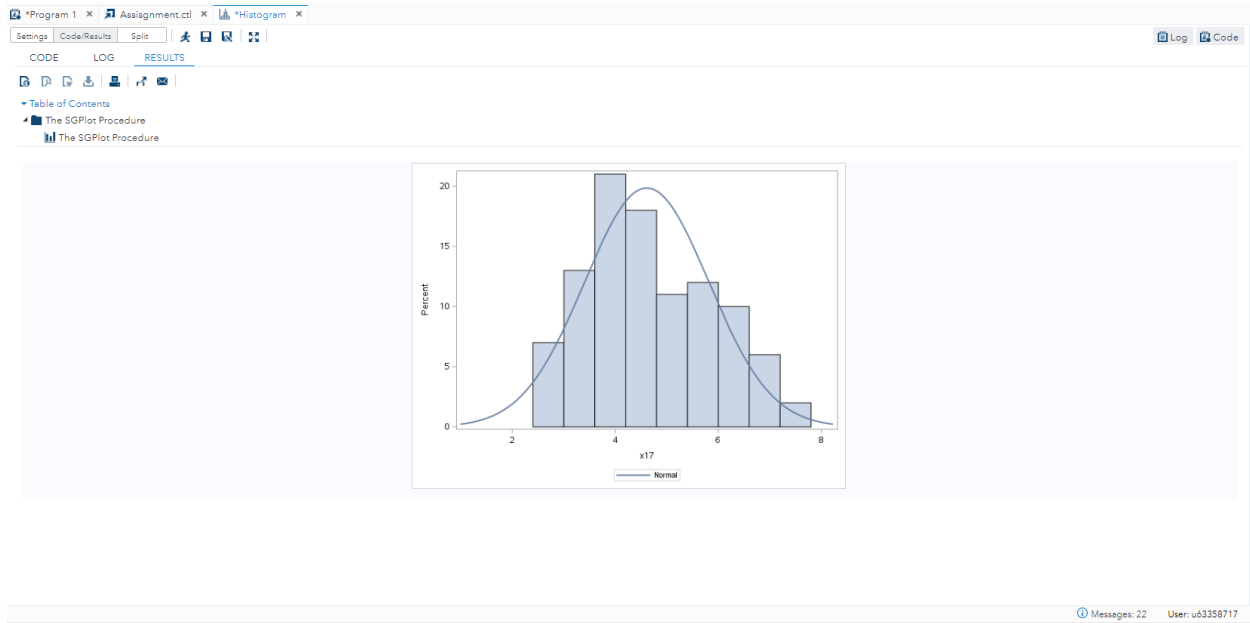   a. **The histogram of X6, X7, x16 and X17 and the associated normal curve.**

X6
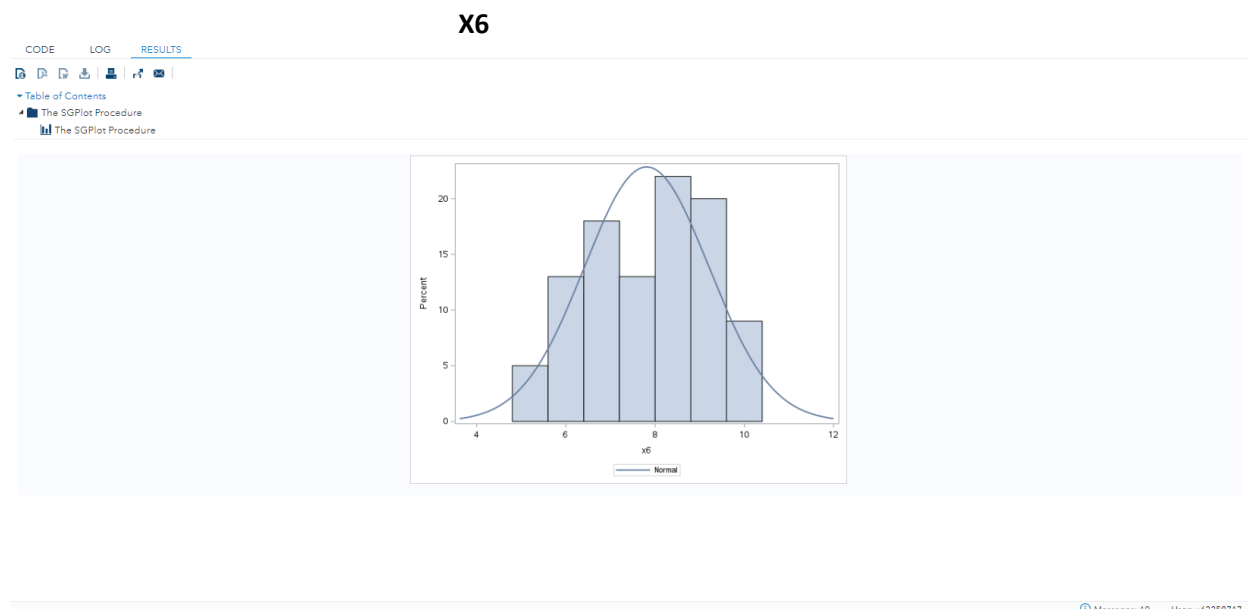
X7

X16

X17

b.   **X6**

Analysis Variable : x6 x6			
Mean	Std Dev	Skewness	Kurtosis
7.8100000	1.3962793	-0.2445019	-1.1318375

X7

Analysis Variable : x7 x7			
Mean	Std Dev	Skewness	Kurtosis
3.6720000	0.7005164	0.6603903	0.7353470

X16

Analysis Variable : x16 x16			
Mean	Std Dev	Skewness	Kurtosis
4.2780000	0.9288398	-0.3335404	0.2441491

X17

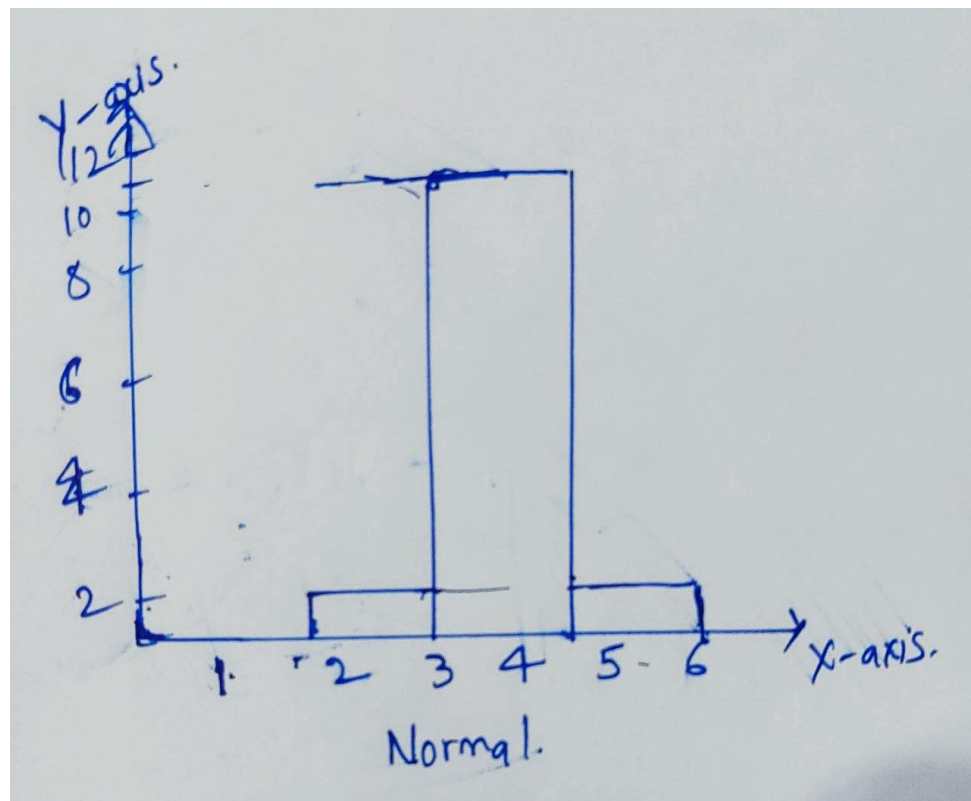| Analysis Variable : x17 x17			
Mean	Std Dev	Skewness	Kurtosis
4.6100000	1.2060035	0.3227665	-0.8158665

d.

Scatterplots for (X7 versus X19)
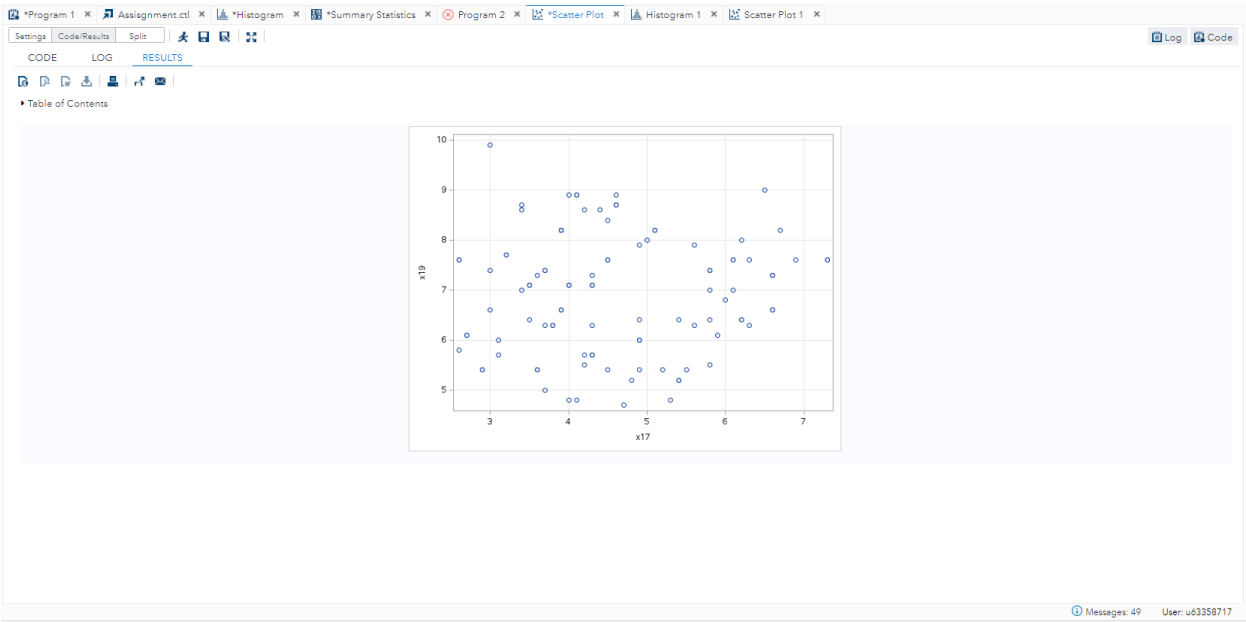
Scatterplots for (X6 versus X19)
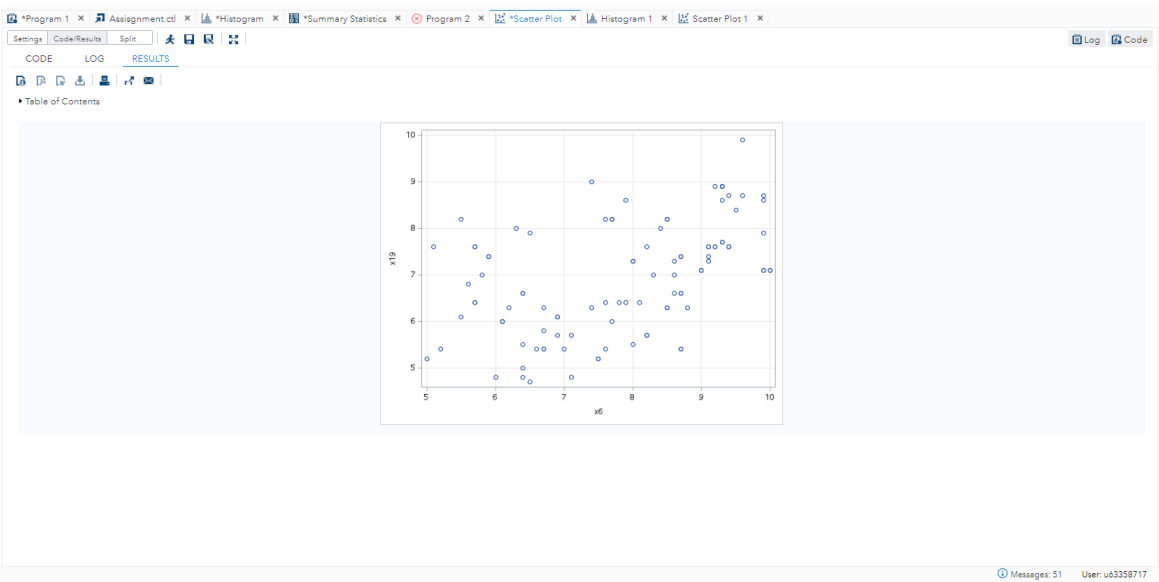
3. For the following data, draw (by hand) the histograms for X1 and X2 and the scatterplot for X1 versusX2. Which variable(s) do think is(are) normal? Explain

X1	X2
3.9	2.5
2.7	5.1
3.4	5.6
3.3	7
3.4	5.2
2.8	3.1
3.7	5
3.3	3.9
3.6	5.1
4.5	5.1
3.2	4.6
4.9	6.3
5.6	4.6
3.9	5.7
4.5	4.7

X1

X2

Y-axis.

12
10
8
6
4
2

1 2 3 4 5 6 7 75 8.

X-axis.

incorrect block