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MGN909-DATA

ANALYSIS USING SPSS

Submitted To:

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Submitted By:

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11616140

KOE12-A10

Question-1:

Import Data File Named “**Workshop_descriptive statistics**” into SPSS window.

```
GET DATA
  /TYPE=XLS
  /FILE='H:\LPU\6\MGN909-DATA ANALYSIS USING SPSS\A2087686848_23623_16_2019_Workshop_descriptive statistics.xls'
  /SHEET=name 'Sheet1'
  /CELLRANGE=FULL
  /READNAMES=ON
  /DATATYPEMIN PERCENTAGE=95.0.
EXECUTE.
```

Question-2:

Recode text into numeric such as – gender, education and location etc

Explanation:

Male = 1

X = 10

PG = 17

Female = 0

XII = 12

UG = 13

OutPut:

```
DATASET NAME DataSet1 WINDOW=FRONT.
RECODE Gender ('male'='1') ('female'='0').
EXECUTE.
RECODE Education ('PG'='17') ('UG'='13') ('XII'='12') ('X'='10').
EXECUTE.
```

Question-3:

Assign missing code on – income , like weather, like architecture, like food, like night life, like people.

OutPut:

```
RECODE Income (MISSING=17000).  
EXECUTE.  
RECODE Likeshimlaweather (MISSING=1).  
EXECUTE.  
RECODE Likeshimlaarchitechture (MISSING=5).  
EXECUTE.  
RECODE Likeshimlapeopleculture (MISSING=2).  
EXECUTE.  
RECODE Likenightlife (MISSING=4).  
EXECUTE.  
RECODE Likefood (MISSING=2).  
EXECUTE.
```

Question-4 & 5:

4- Recode location : North Vs Rest (2 category)

5 - Compute variable : Shimla fondness

Output:

```
RECODE Location ('North'='1') (ELSE='2').  
EXECUTE.  
  
COMPUTE Shimlafondness=(Likeshimlaweather + Likeshimlaarchitechture + Likeshimlapeopleculture +  
    Likenightlife + Likefood) / 5.  
EXECUTE.
```

Question-6:

Compute frequency

☐ Architecture

☐ Nightlife

Exp:

Strongly agreed people have less valid percent.

Output:

```
FREQUENCIES VARIABLES=Likeshimlaarchitechture Likenightlife  
/ORDER=ANALYSIS.
```

Frequencies

[DataSet1]

		Statistics	
		Like shimla architechture	Like night life
N	Valid	108	108
	Missing	0	0

Frequency Table

Like shimla architechture					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	24	22.2	22.2	22.2
	2	23	21.3	21.3	43.5
	3	34	31.5	31.5	75.0
	4	17	15.7	15.7	90.7
	5	10	9.3	9.3	100.0
	Total	108	100.0	100.0	

Like night life					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2	8	7.4	7.4	7.4
	3	53	49.1	49.1	56.5
	4	31	28.7	28.7	85.2
	5	16	14.8	14.8	100.0
	Total	108	100.0	100.0	

Question-7:

Cross tab frequency : Location and fondness.

Expl:

Location and fondness is independent of Each other.

OutPut:

```
CROSSTABS
  /TABLES=Location BY Shimlafondness
  /FORMAT=AVALUE TABLES
  /CELLS=COUNT
  /COUNT ROUND CELL.
```

Crosstabs

Case Processing Summary

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
Location * Shimlafondness	108	100.0%	0	0.0%	108	100.0%

Location * Shimlafondness Crosstabulation

Count		Shimlafondness														Total
		1.80	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	
Location	1	0	0	2	2	0	0	0	3	2	0	0	0	0	1	10
	2	1	6	5	7	9	14	8	7	9	18	7	4	3	0	98
Total		1	6	7	9	9	14	8	10	11	18	7	4	3	1	108

Question-8:

Draw frequency polygon of income , food

Expl:-

People having income less than 1Lak are likely towards to like Food.

Output:-

* Chart Builder.

GGRAPH

```
/GRAPHDATASET NAME="graphdataset" VARIABLES=Income Likefood MISSING=LISTWISE REPORTMISSING=NO
```

```
/GRAPHSPEC SOURCE=INLINE.
```

BEGIN GPL

```
SOURCE: s=userSource(id("graphdataset"))
```

```
DATA: Income=col(source(s), name("Income"))
```

```
DATA: Likefood=col(source(s), name("Likefood"), unit.category())
```

```
GUIDE: axis(dim(1), label("Income"))
```

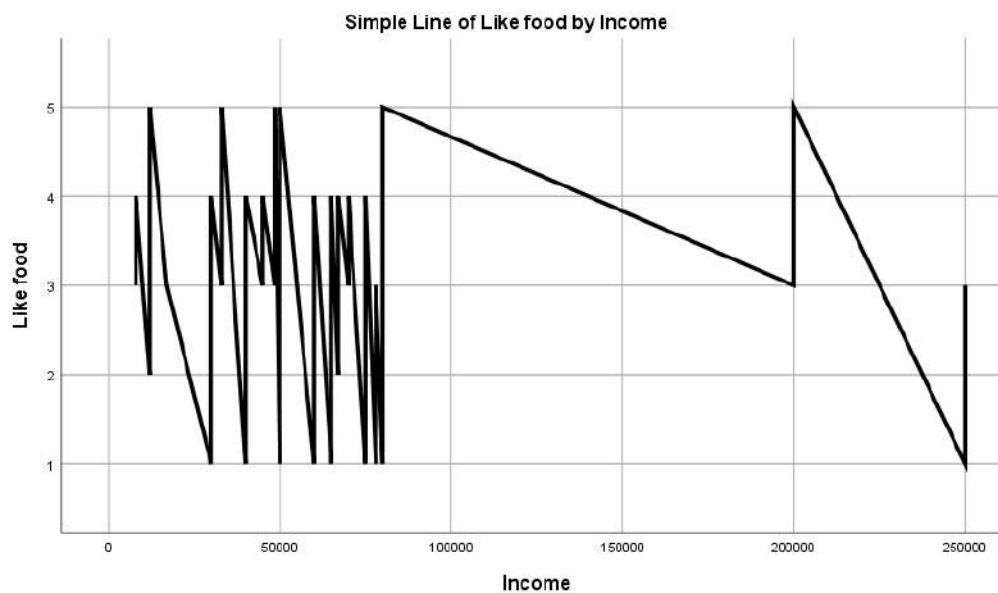
```
GUIDE: axis(dim(2), label("Like food"))
```

```
GUIDE: text.title(label("Simple Line of Like food by Income"))
```

```
ELEMENT: line(position(Income*Likefood), missing.wings())
```

END GPL.

GGraph



Question-9:

Box plot – Gender, fondness

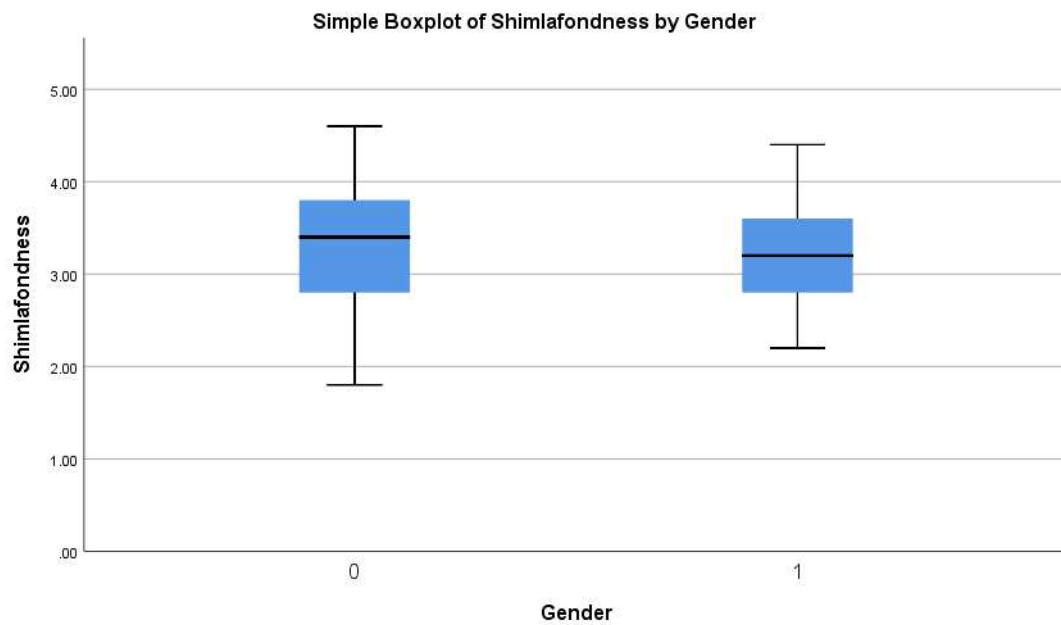
Expl:

Most of the males are uncertain about the Shimla fondness and females are agree with the Shimlafondness.

Output:-

```
* Chart Builder.
GGRAPH
  /GRAPHDATASET NAME="graphdataset" VARIABLES=Gender Shimlafondness MISSING=LISTWISE
  REPORTMISSING=NO
  /GRAPHSPEC SOURCE=INLINE.
BEGIN GPL
  SOURCE: s=userSource(id("graphdataset"))
  DATA: Gender=col(source(s), name("Gender"), unit.category())
  DATA: Shimlafondness=col(source(s), name("Shimlafondness"))
  DATA: id=col(source(s), name("$CASENUM"), unit.category())
  GUIDE: axis(dim(1), label("Gender"))
  GUIDE: axis(dim(2), label("Shimlafondness"))
  GUIDE: text.title(label("Simple Boxplot of Shimlafondness by Gender"))
  SCALE: linear(dim(2), include(0))
  ELEMENT: schema(position(bin.quantile.letter(Gender*Shimlafondness)), label(id))
END GPL.
```


GGraph



Question-10:

Normality – fondness, income, like Shimla people

Output:

Case Processing Summary							
	Income	Valid		Cases Missing		Total	
		N	Percent	N	Percent	N	Percent
shimlafondness	8000	4	100.0%	0	0.0%	4	100.0%
	10000	1	100.0%	0	0.0%	1	100.0%
	12000	9	100.0%	0	0.0%	9	100.0%
	30000	7	100.0%	0	0.0%	7	100.0%
	33000	4	100.0%	0	0.0%	4	100.0%
	40000	17	100.0%	0	0.0%	17	100.0%
	45000	2	100.0%	0	0.0%	2	100.0%
	48500	3	100.0%	0	0.0%	3	100.0%
	50000	12	100.0%	0	0.0%	12	100.0%
	60000	11	100.0%	0	0.0%	11	100.0%
	65000	3	100.0%	0	0.0%	3	100.0%
	67000	4	100.0%	0	0.0%	4	100.0%
	70000	4	100.0%	0	0.0%	4	100.0%
	75000	5	100.0%	0	0.0%	5	100.0%
	78000	4	100.0%	0	0.0%	4	100.0%
	80000	9	100.0%	0	0.0%	9	100.0%
	200000	5	100.0%	0	0.0%	5	100.0%
	250000	4	100.0%	0	0.0%	4	100.0%

Log

Frequencies

Title

Notes

Active Dataset

Statistics

Frequency Table

Title

Like shimla archite

Like night life

Log

Crosstabs

Title

Notes

Case Processing Sumr

Location * shimlafondn

Log

GGraph

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Notes

Graph

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Notes

Warnings

Income

Title

Case Processing S

Descriptives

Descriptives^a

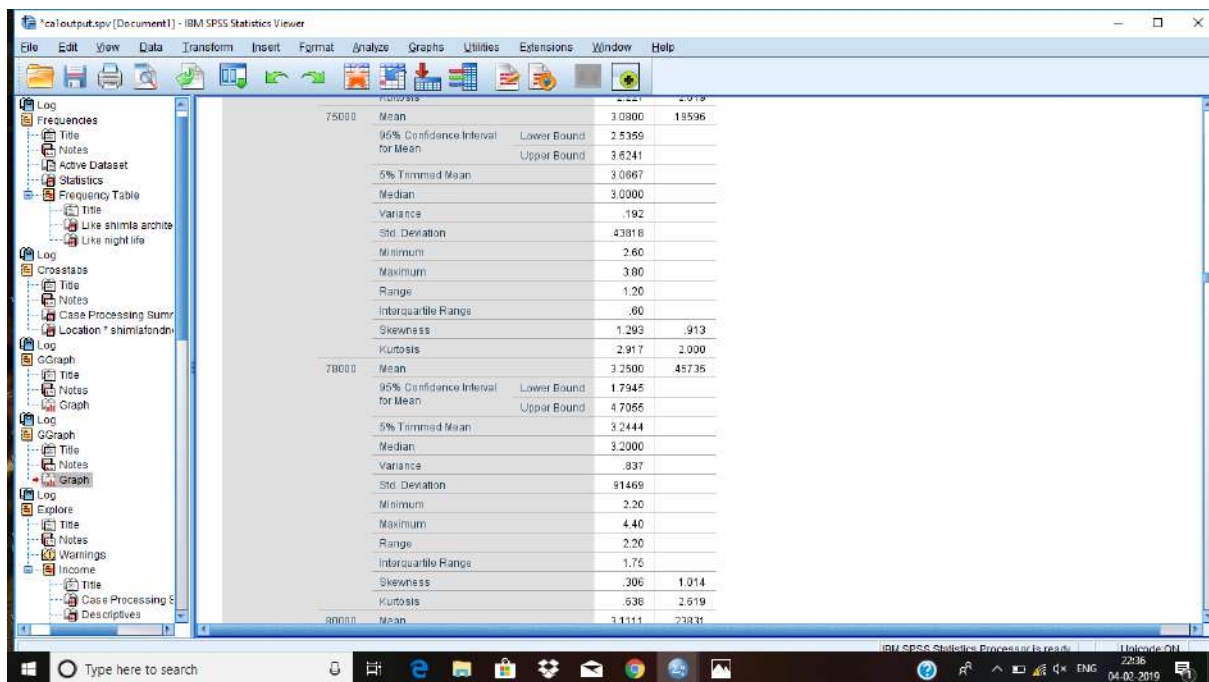
	Income		Statistic	Std. Error
shimlafondness	8000	Mean	3.3500	.22174
		95% Confidence Interval for Mean	Lower Bound	2.6443
			Upper Bound	4.0557
		5% Trimmed Mean	3.3556	
		Median	3.4000	
		Variance	.197	
		Std. Deviation	.44347	
		Minimum	2.90	
		Maximum	3.80	
		Range	1.90	
		Interquartile Range	.85	
		Skewness	-.482	1.014
		Kurtosis	-1.700	2.619
	12000	Mean	3.7556	.21023
		95% Confidence Interval for Mean	Lower Bound	3.2708
			Upper Bound	4.2404
		5% Trimmed Mean	3.7617	
		Median	3.8000	
		Variance	.398	
		Std. Deviation	.63070	
Minimum		2.90		
Maximum		4.60		
Range		1.80		
		Interquartile Range	1.10	
		Skewness	-.503	1.013

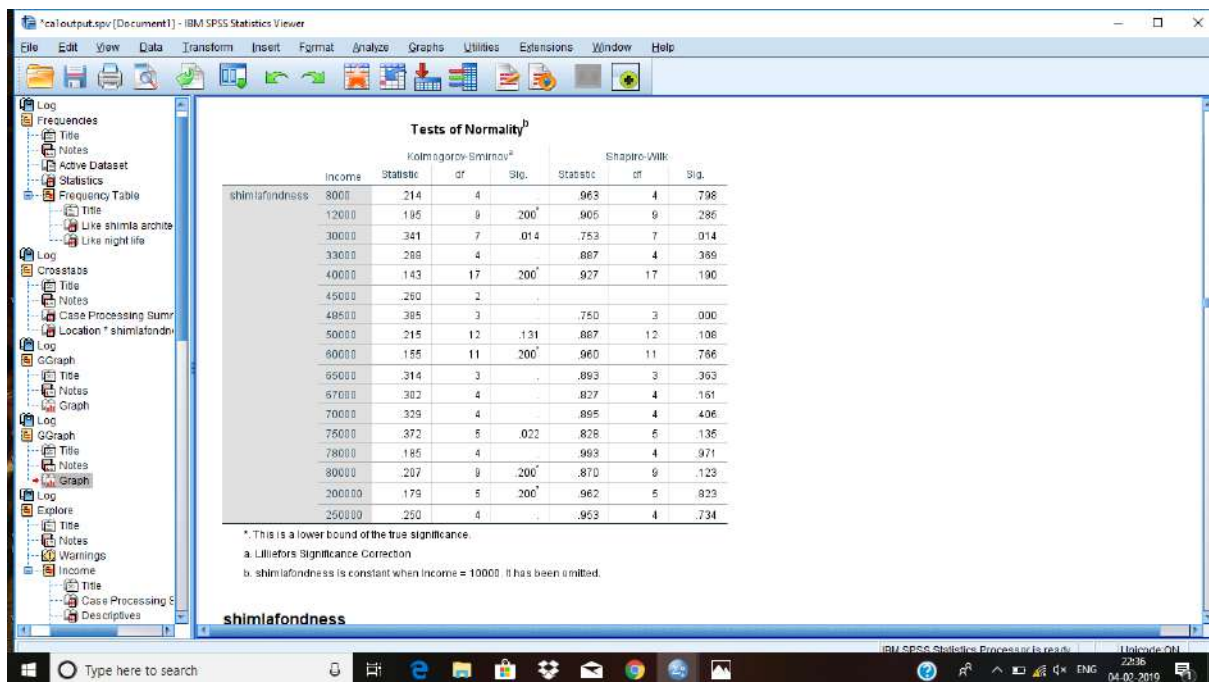
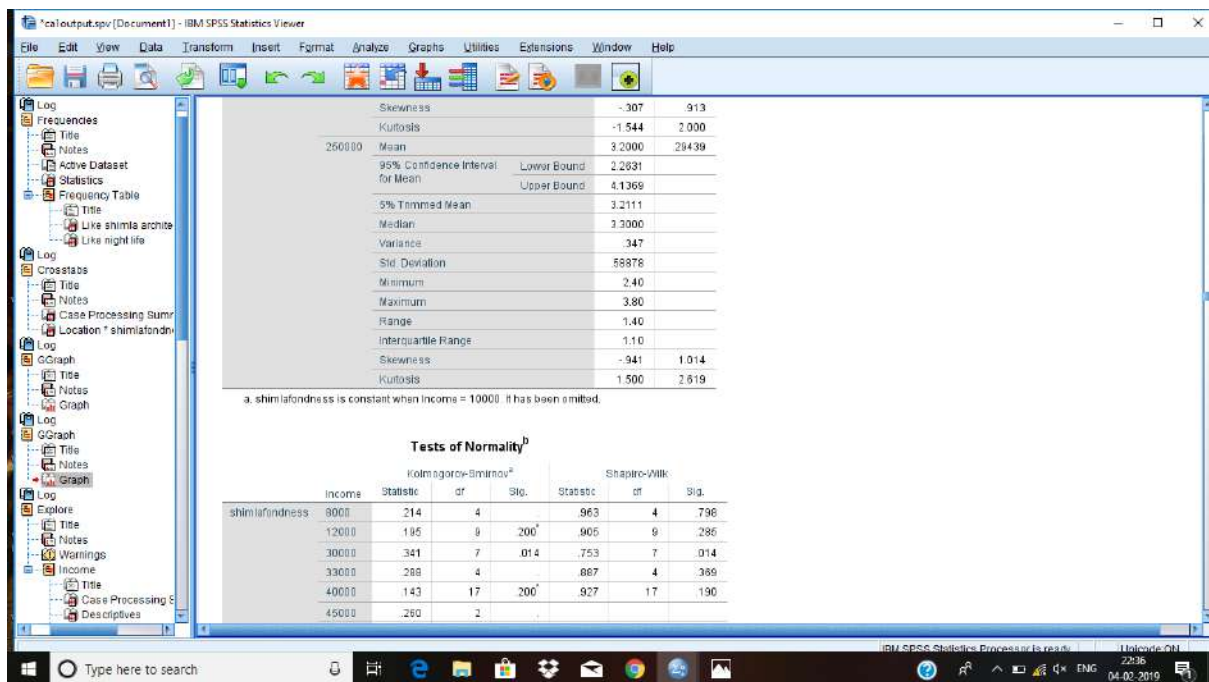
es	30000	Kurtosis		-1.529	1.400
		Mean		3.3429	.30147
		95% Confidence Interval for Mean	Lower Bound	2.6052	
			Upper Bound	4.0805	
		5% Trimmed Mean		3.3698	
		Median		3.6000	
		Variance		.636	
		Std. Deviation		.79752	
		Minimum		2.20	
		Maximum		4.00	
		Range		1.80	
		Interquartile Range		1.80	
		Skewness		-1.052	.794
		Kurtosis		-1.976	1.587
		Mean		3.7500	.26300
Processing Summary * shimlafondn	33000	95% Confidence Interval for Mean	Lower Bound	2.9130	
			Upper Bound	4.5870	
		5% Trimmed Mean		3.7667	
		Median		3.9000	
		Variance		.277	
		Std. Deviation		.52599	
		Minimum		3.00	
		Maximum		4.20	
		Range		1.20	
		Interquartile Range		.95	
		Skewness		-1.443	1.014
		Kurtosis		2.235	2.619
		Mean		3.4000	.20000
		95% Confidence Interval for Mean	Lower Bound	8588	
			Upper Bound	6.0412	
		5% Trimmed Mean		.	
		Median		3.4000	
		Variance		.080	
		Std. Deviation		.28284	
		Minimum		3.20	
		Maximum		3.60	
		Range		.40	
		Interquartile Range		.	
		Skewness		.	.
		Kurtosis		.	.
		Mean		3.4667	.26667
		95% Confidence Interval for Mean	Lower Bound	2.3193	
			Upper Bound	4.6140	
		5% Trimmed Mean		.	
		Median		3.2000	
		Variance		.213	
		Std. Deviation		.46188	
		Minimum		3.20	
		Maximum		4.00	
		Range		.80	
		Interquartile Range		.	
		Skewness		1.732	1.225
		Kurtosis		.	.

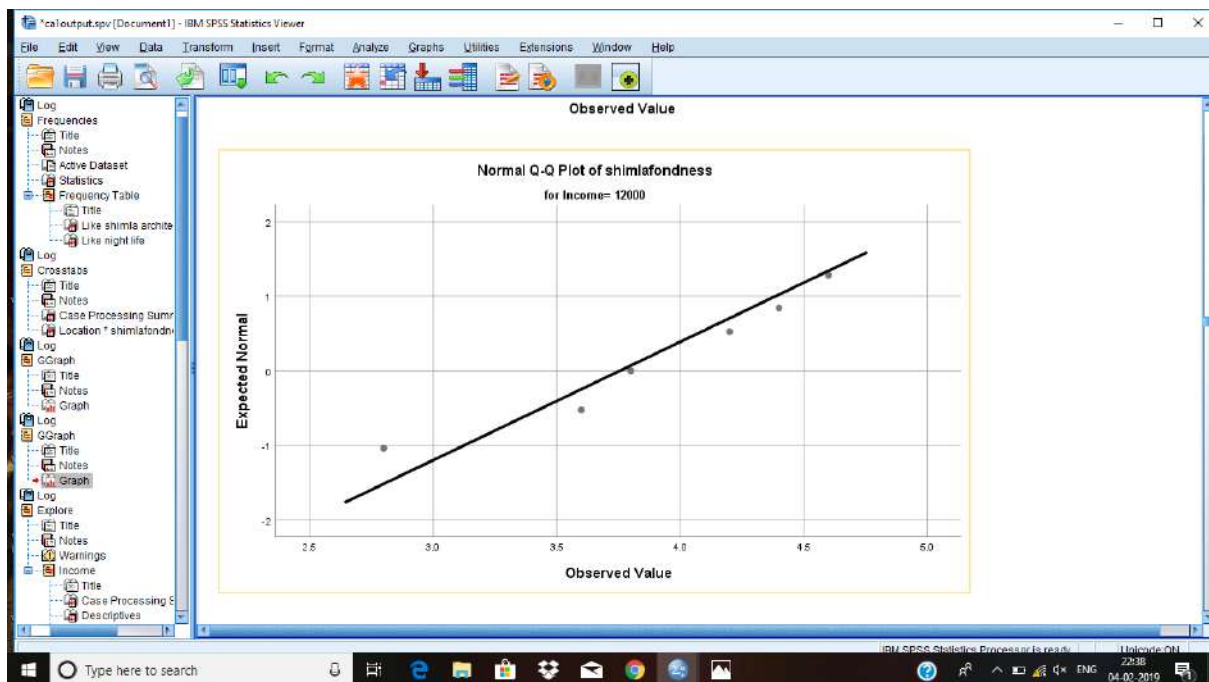
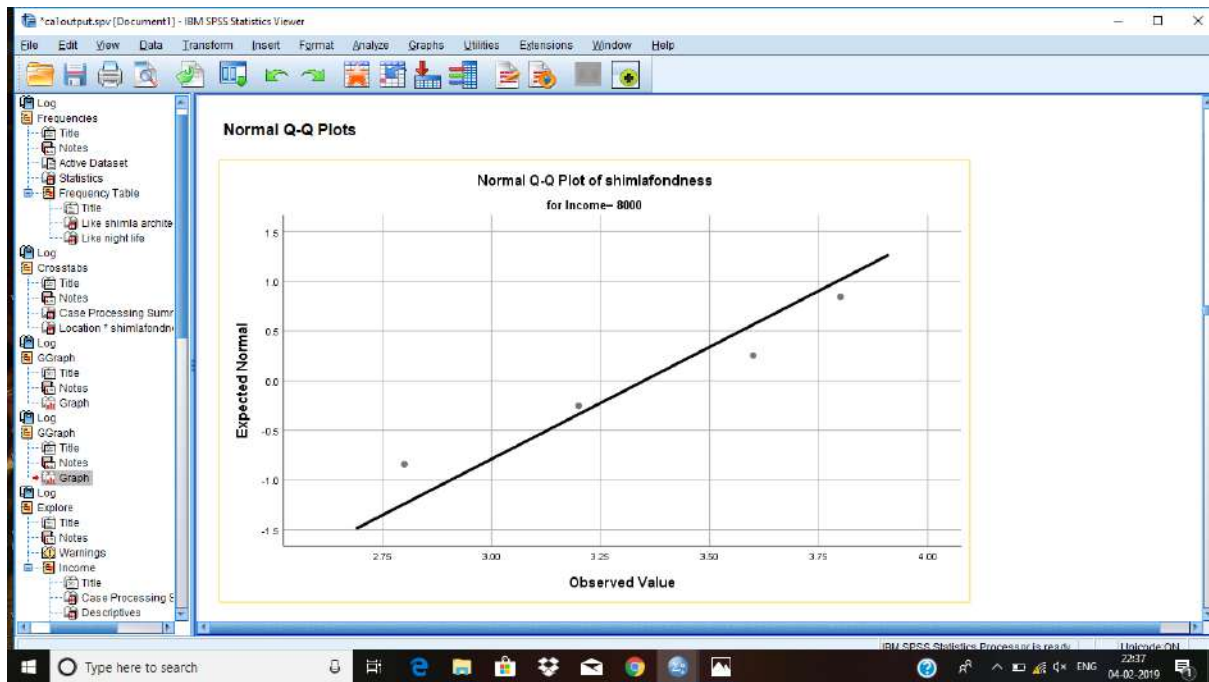
ICM CDC Christine Donnan is ready

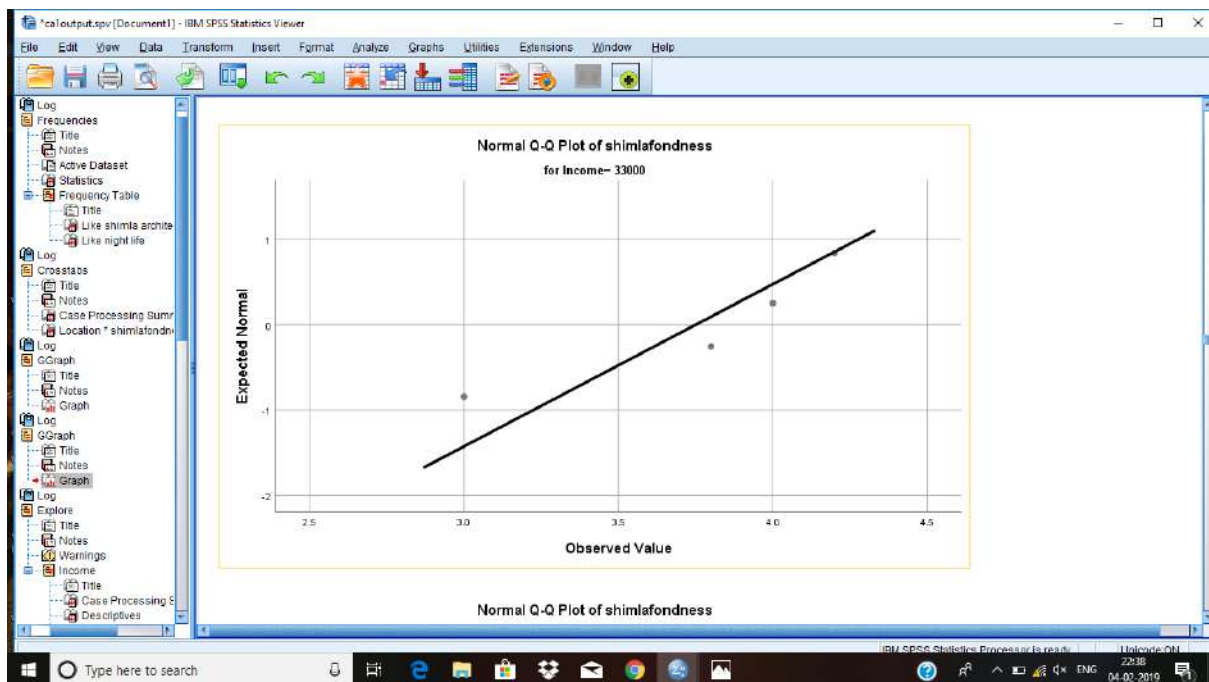
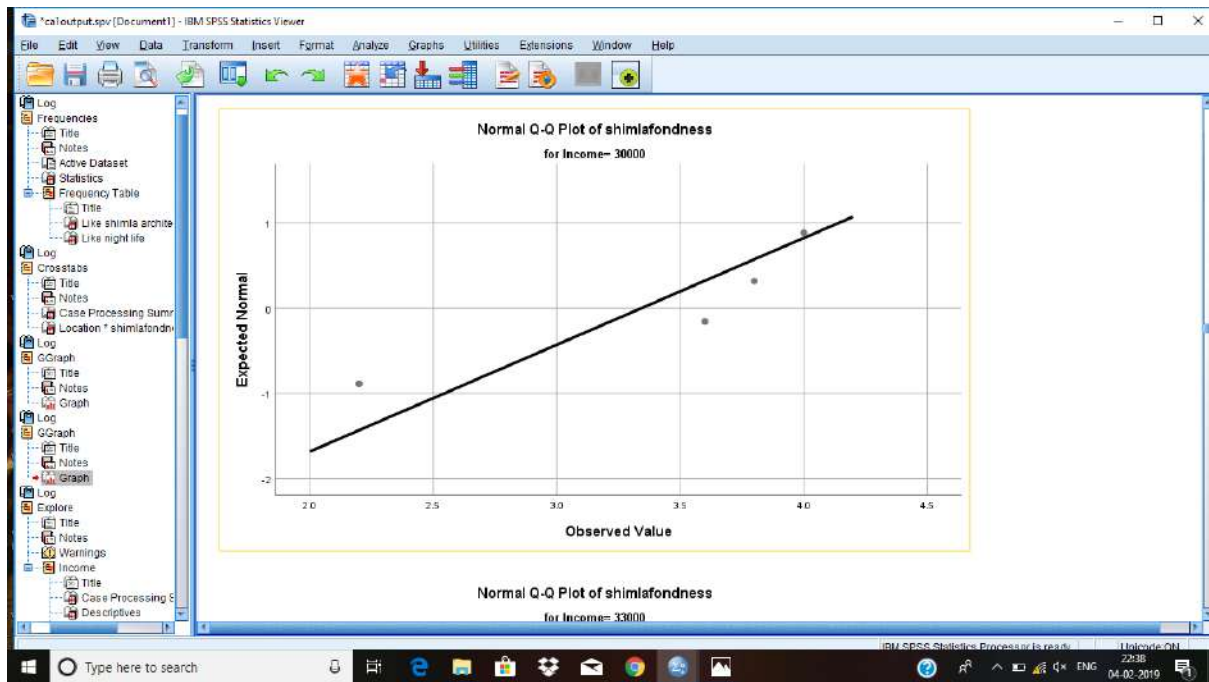
ite	45000	Kurtosis		-1.968	1.063		
		Mean		3.4000	.20000		
		95% Confidence Interval for Mean	Lower Bound	8588			
			Upper Bound	5.0412			
		5% Trimmed Mean		.			
		Median		3.4000			
		Variance		.080			
		Std. Deviation		.28284			
		Minimum		3.20			
		Maximum		3.60			
		Range		.40			
		Interquartile Range		.			
		Skewness		.	.		
		Kurtosis		.	.		
		mr dn	48500	Mean		3.4667	.26667
95% Confidence Interval for Mean	Lower Bound			2.3193			
	Upper Bound			4.6140			
5% Trimmed Mean				.			
Median				3.2000			
Variance				.213			
Std. Deviation				.46188			
Minimum				3.20			
Maximum				4.00			
Range				.80			
Interquartile Range				.			
Skewness				1.732	1.225		
Kurtosis				.	.		
g S				Mean		3.4000	.20000
				95% Confidence Interval for Mean	Lower Bound	8588	
		Upper Bound	6.0412				
		5% Trimmed Mean		.			
		Median		3.4000			
		Variance		.080			
		Std. Deviation		.28284			
		Minimum		3.20			
		Maximum		3.60			
		Range		.40			
		Interquartile Range		.			
		Skewness		.	.		
		Kurtosis		.	.		

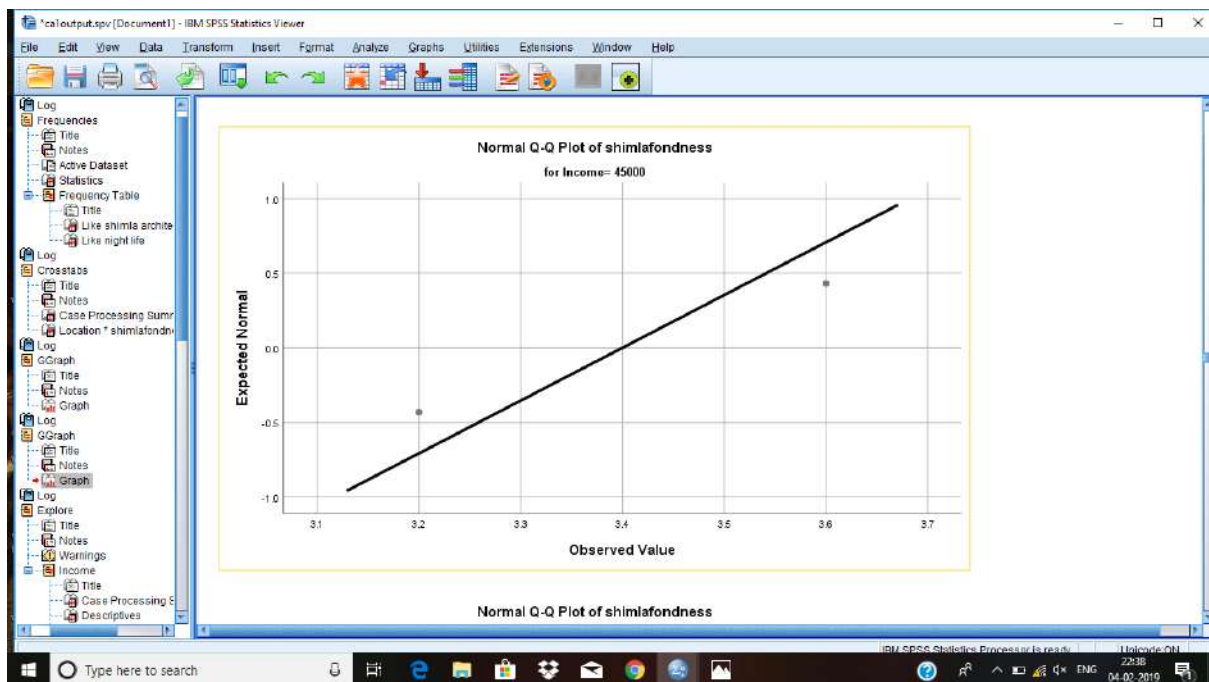
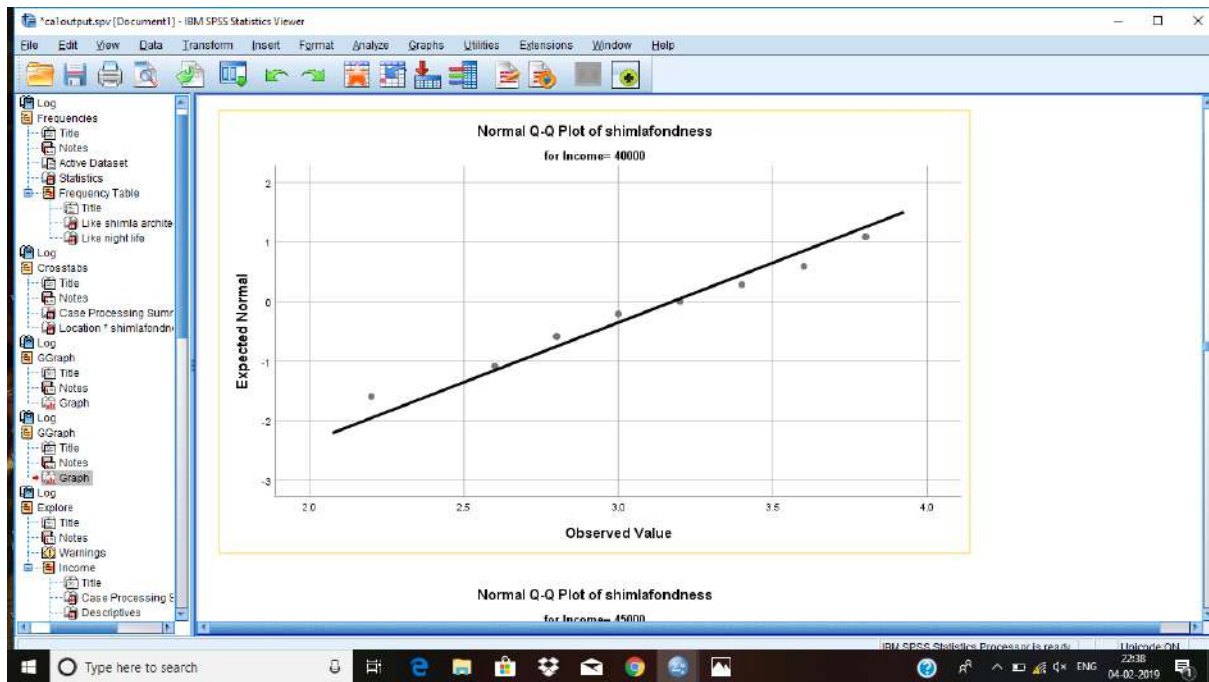


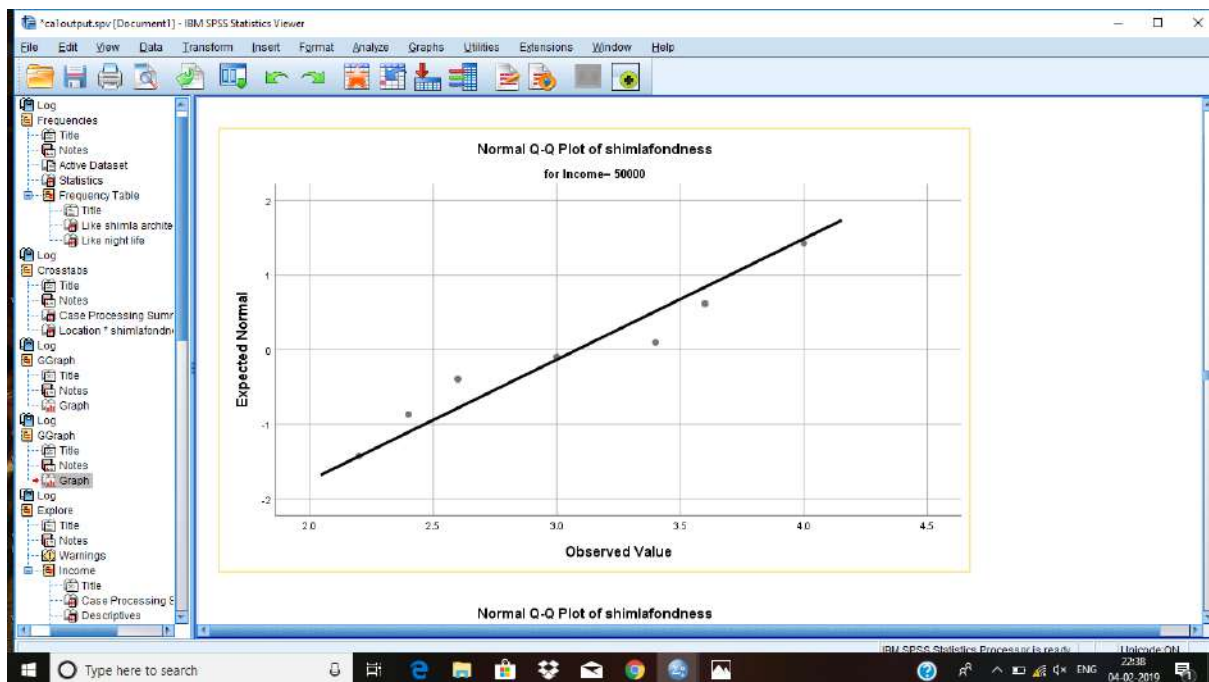
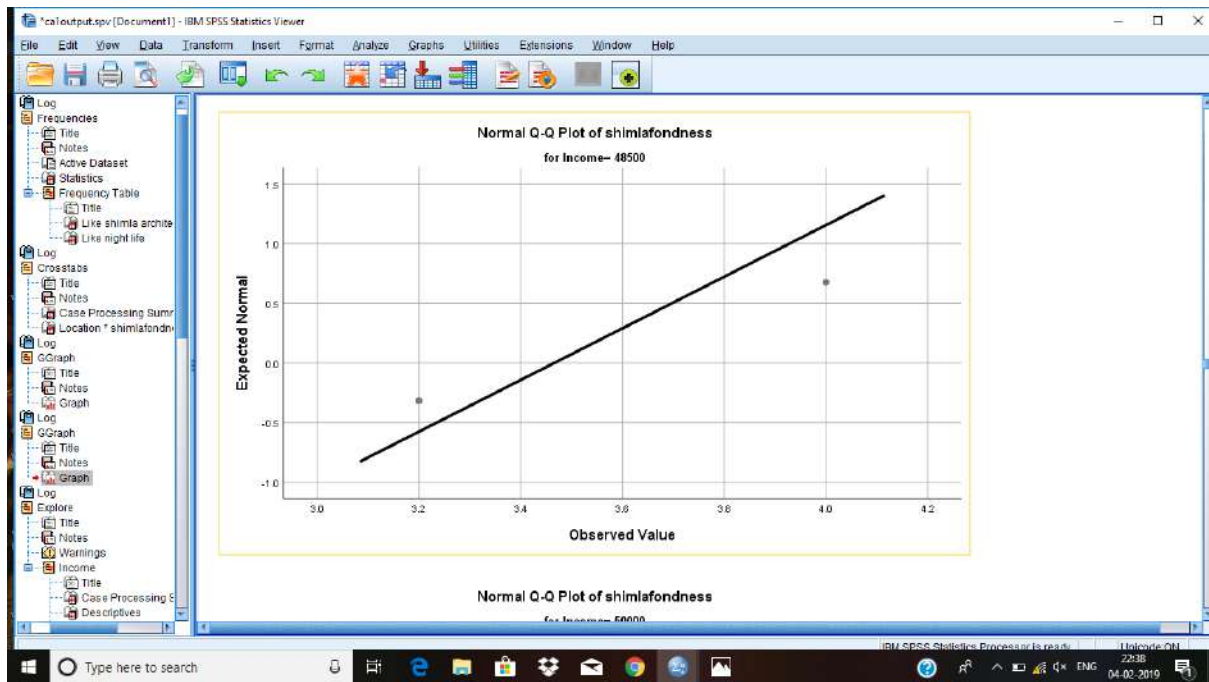


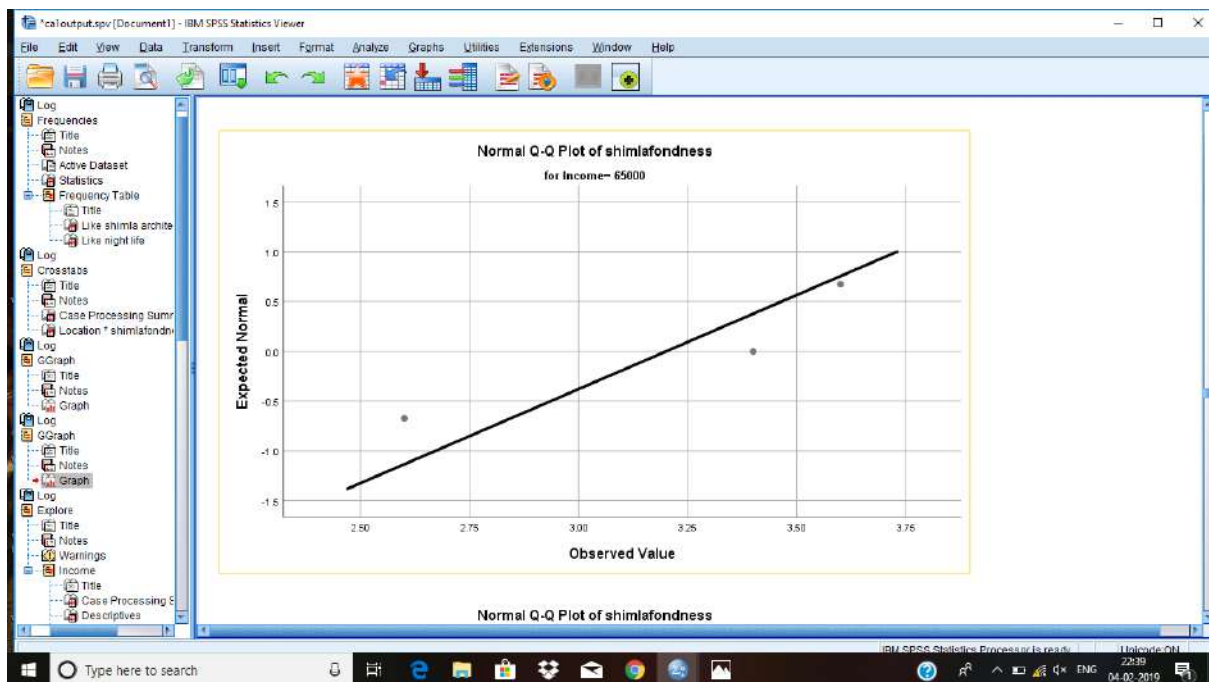
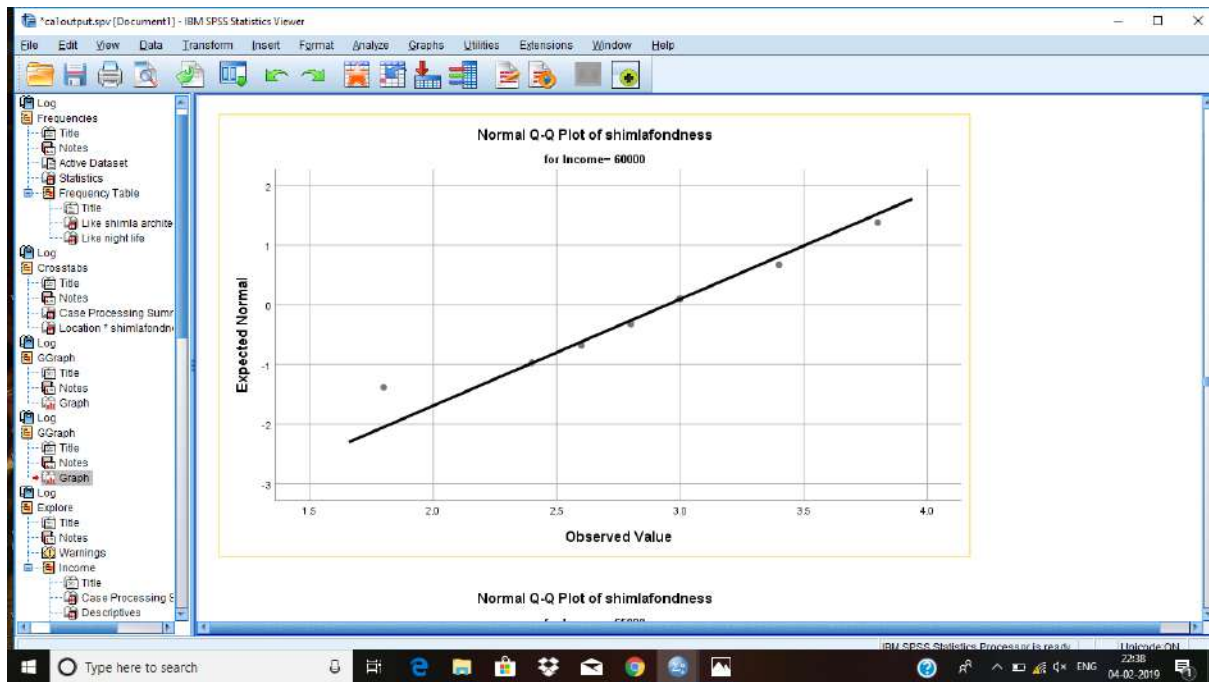


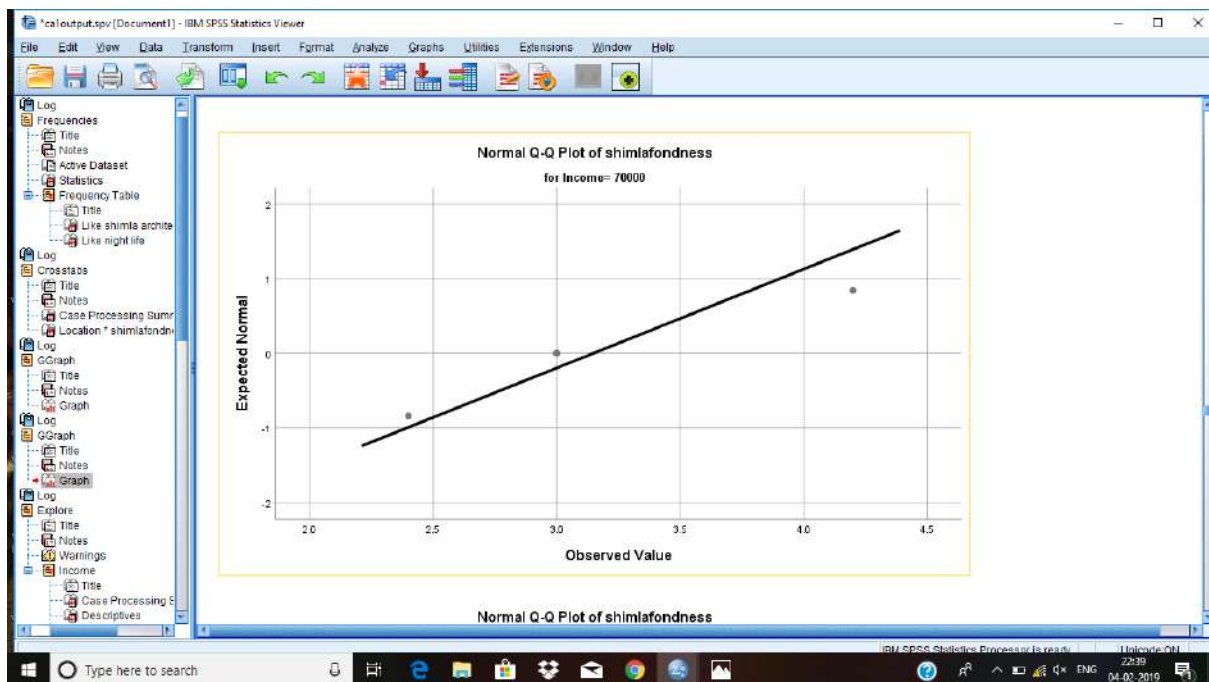
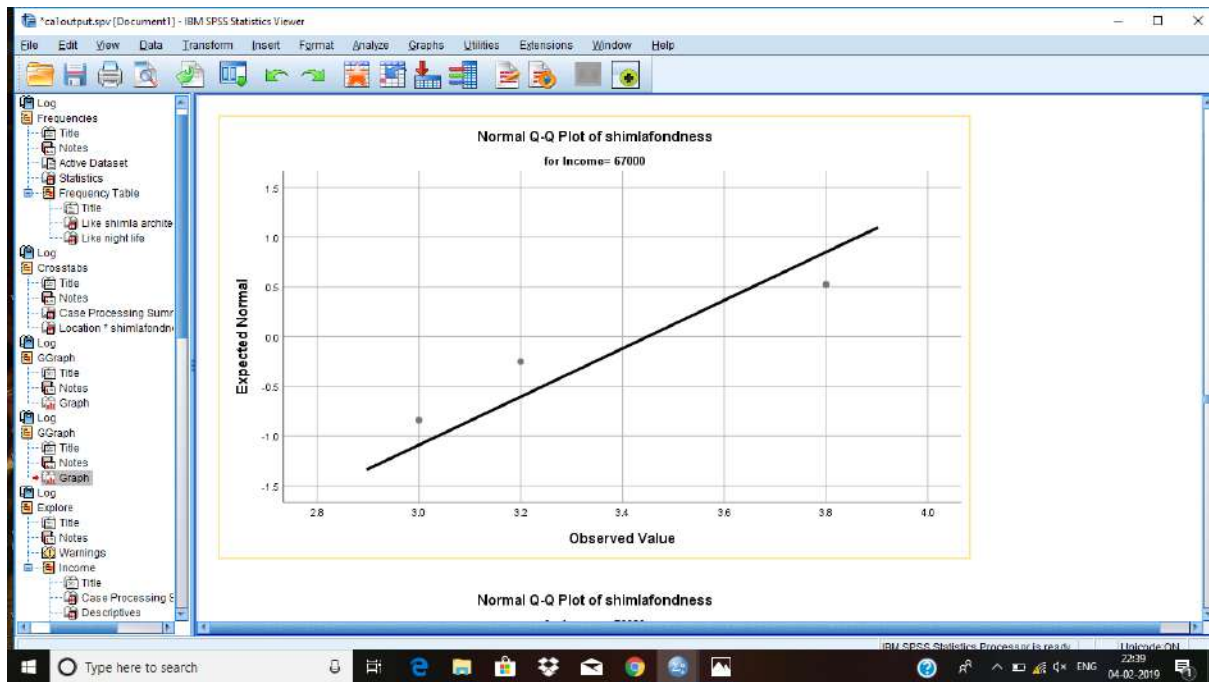


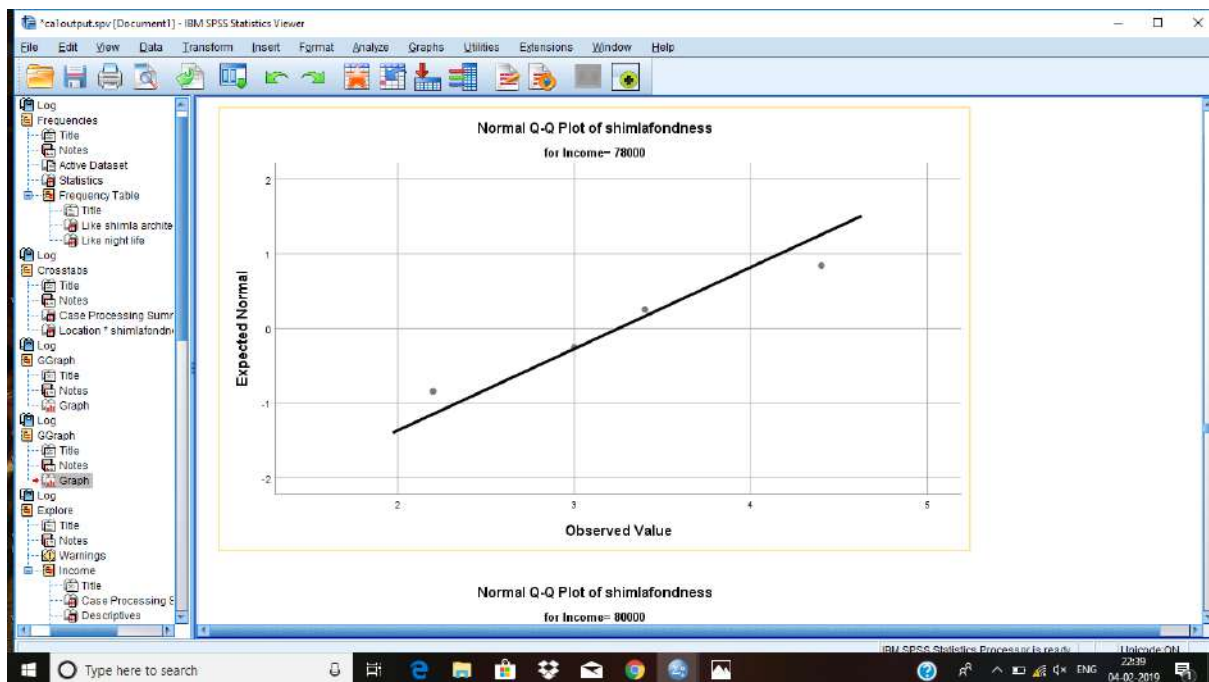
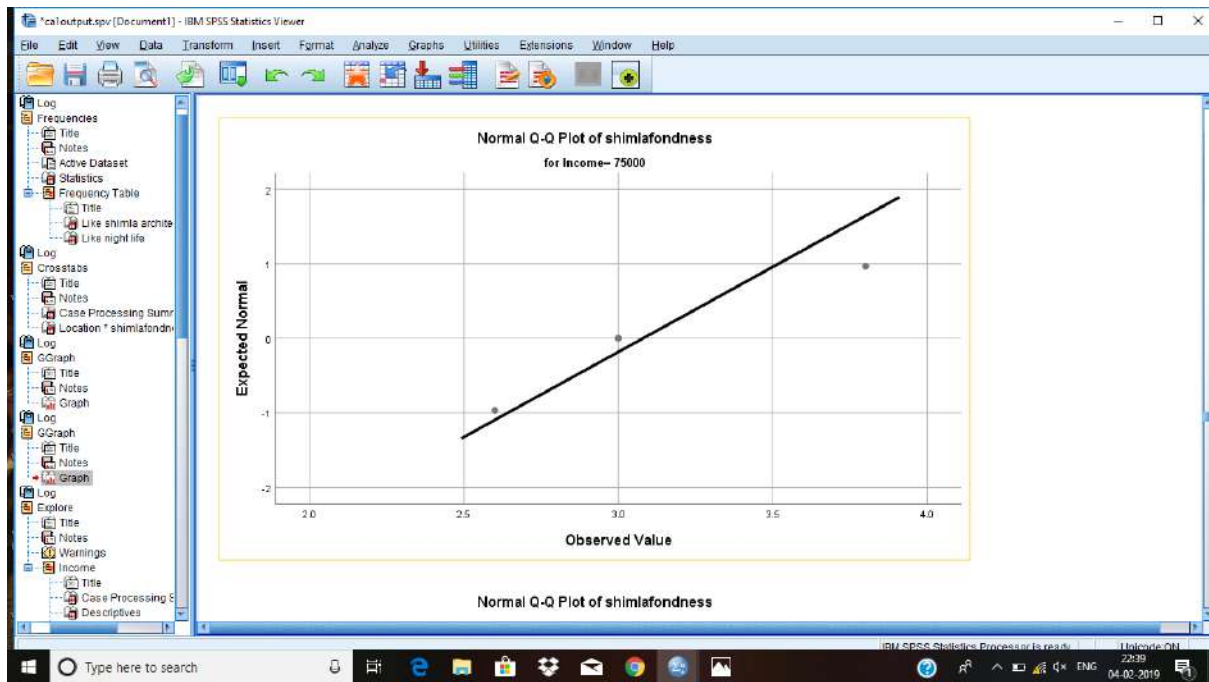


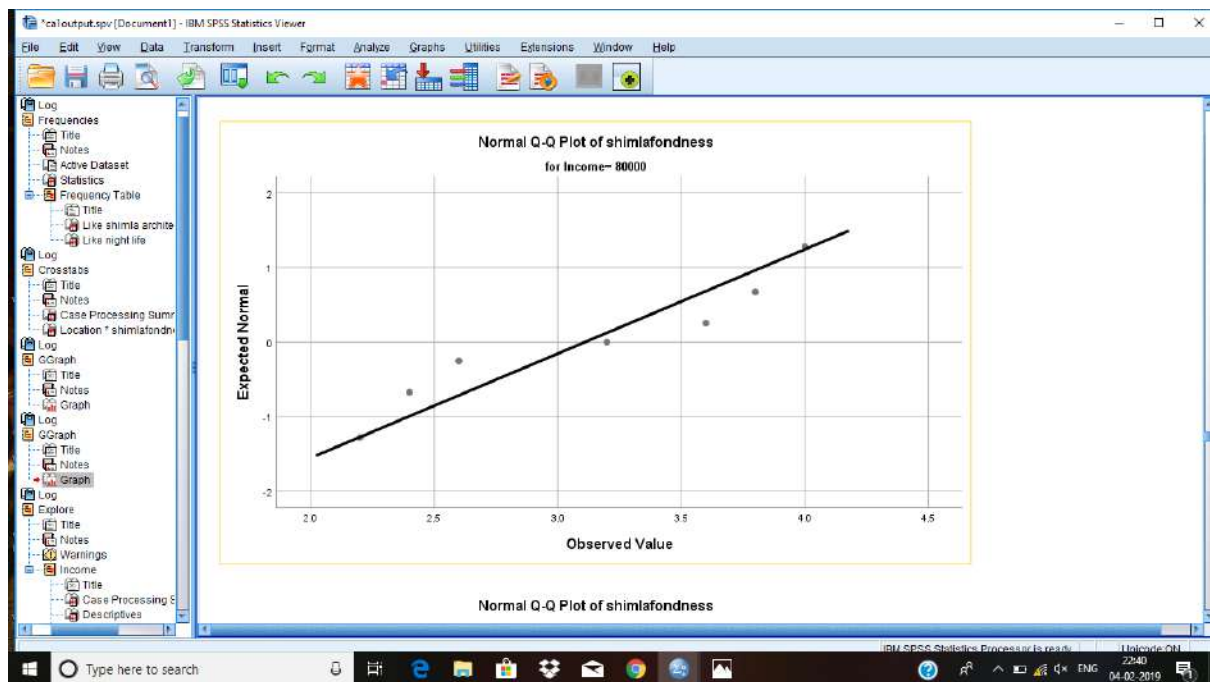


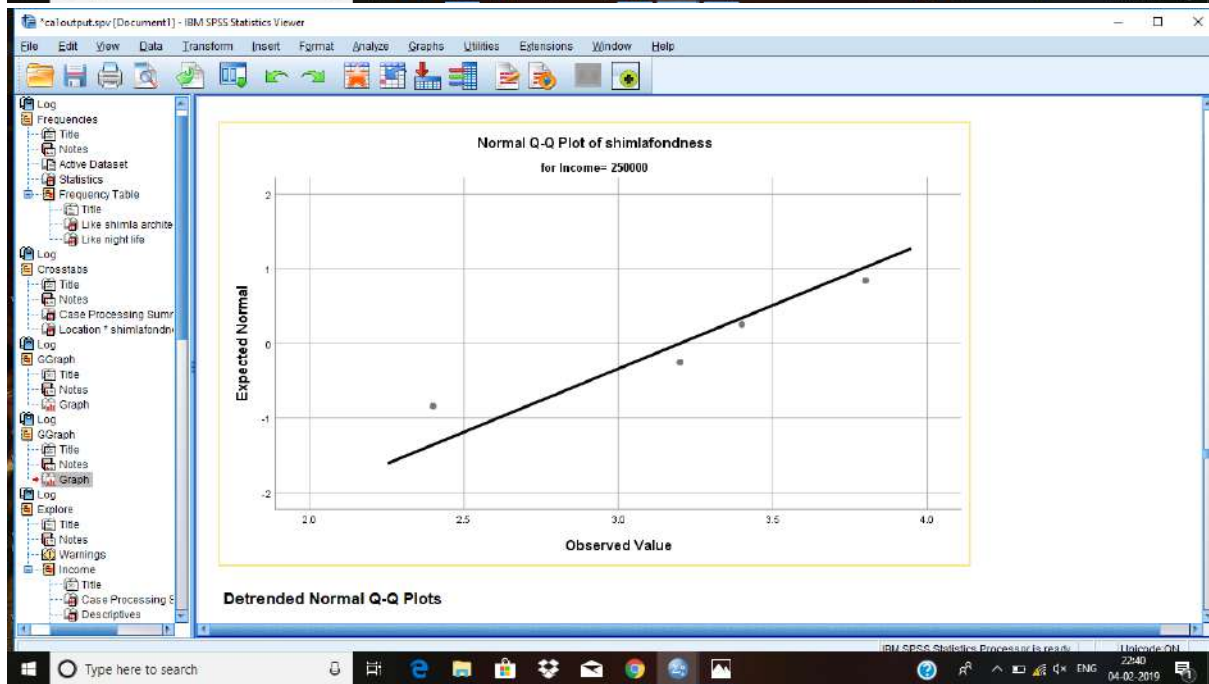
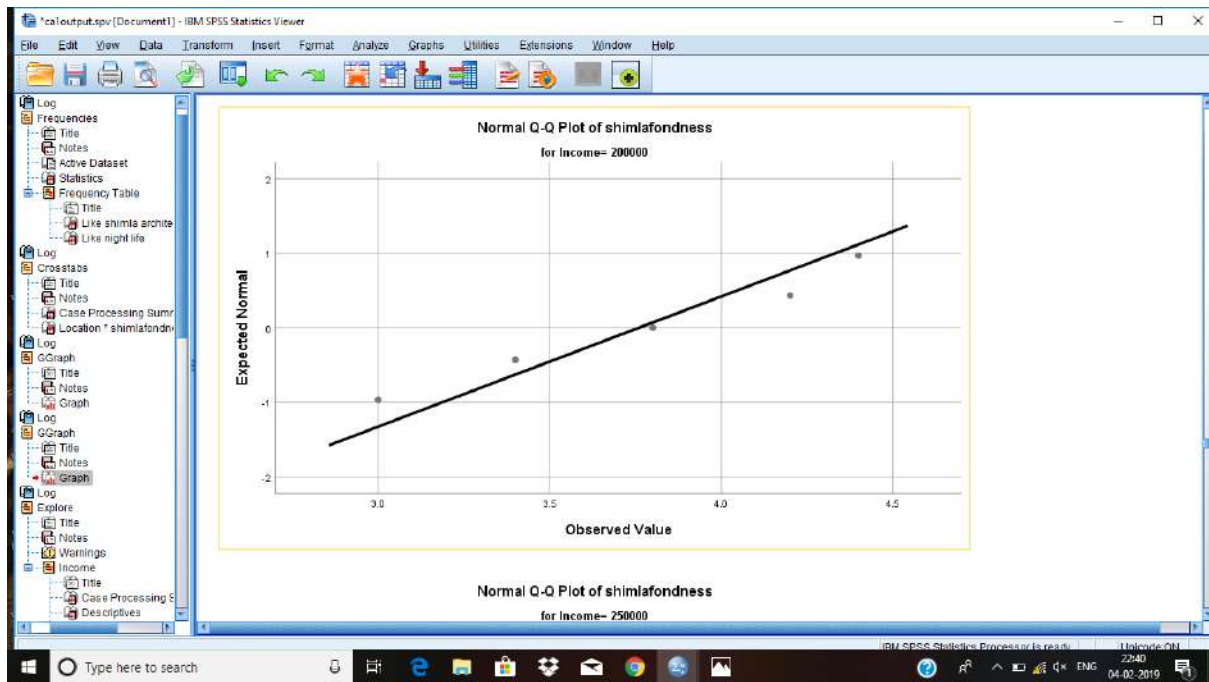


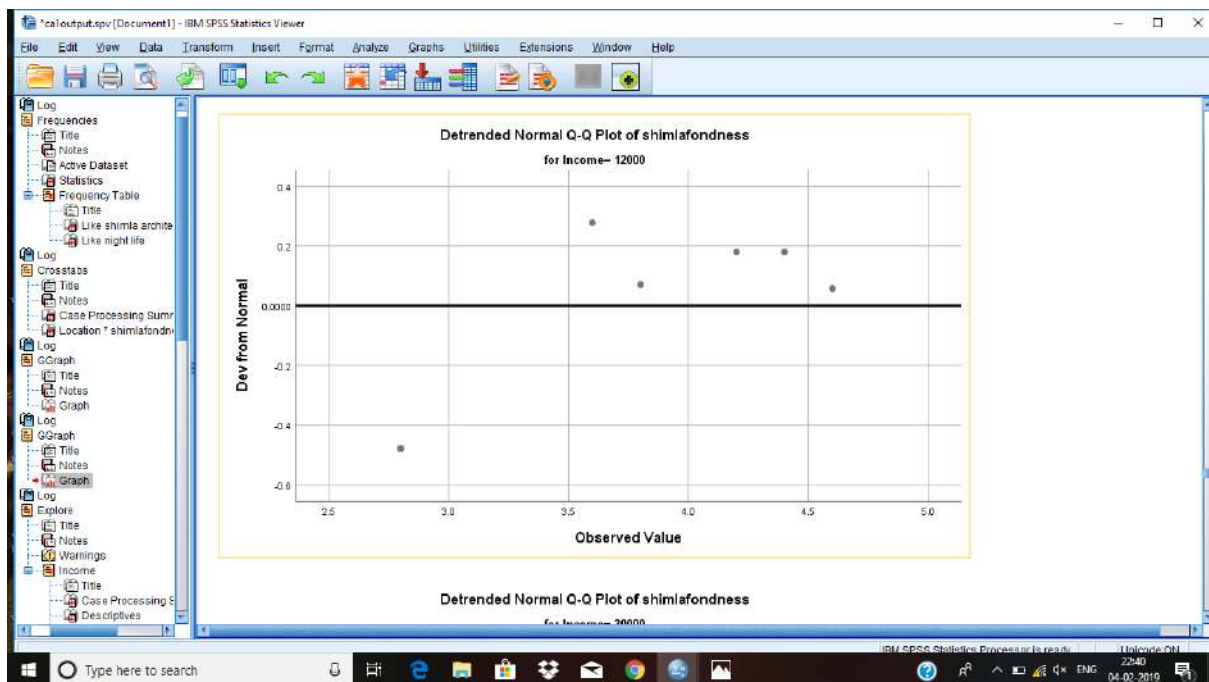
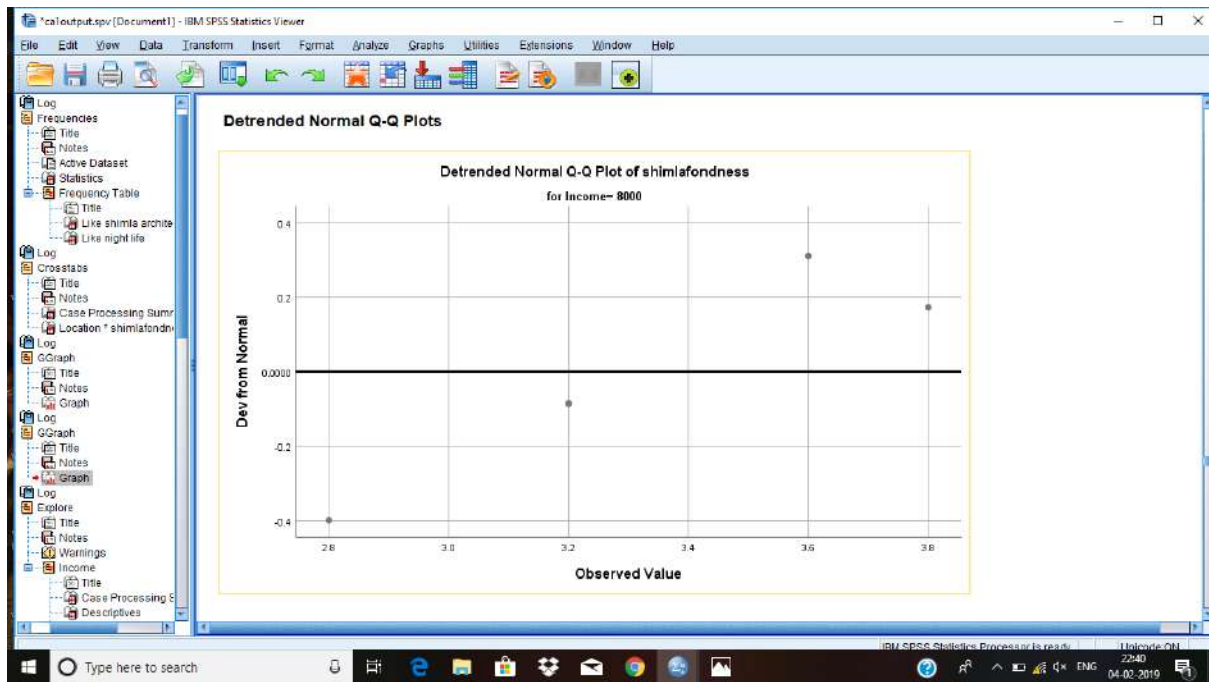


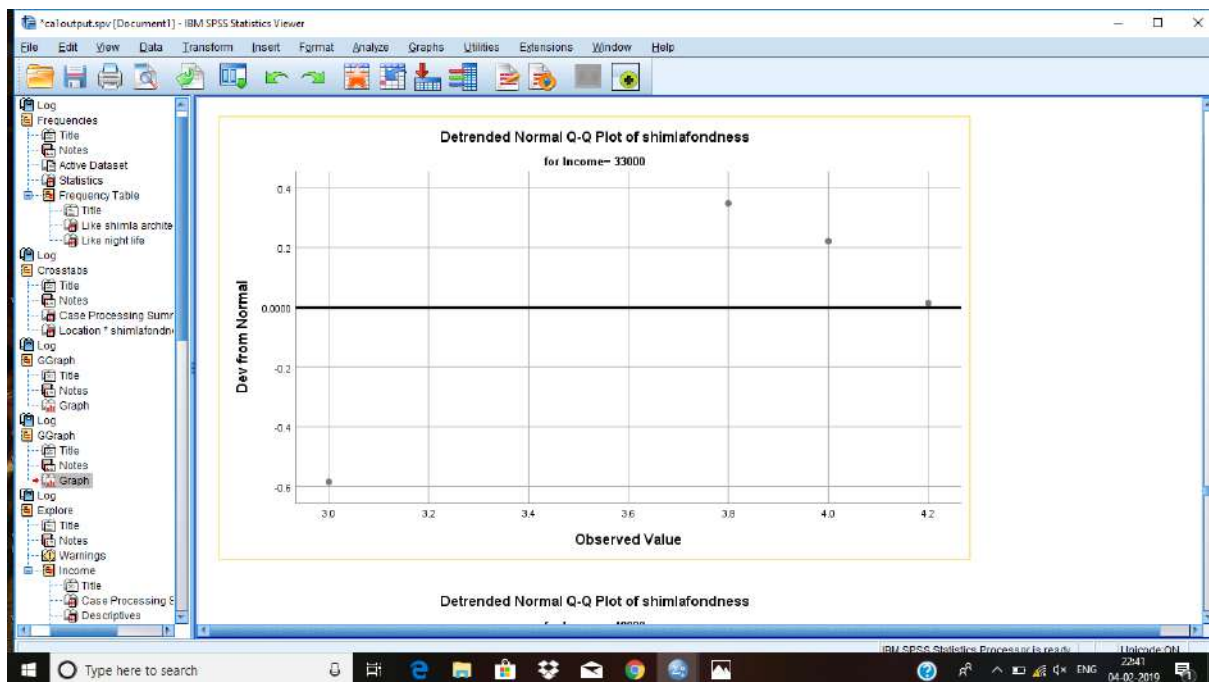
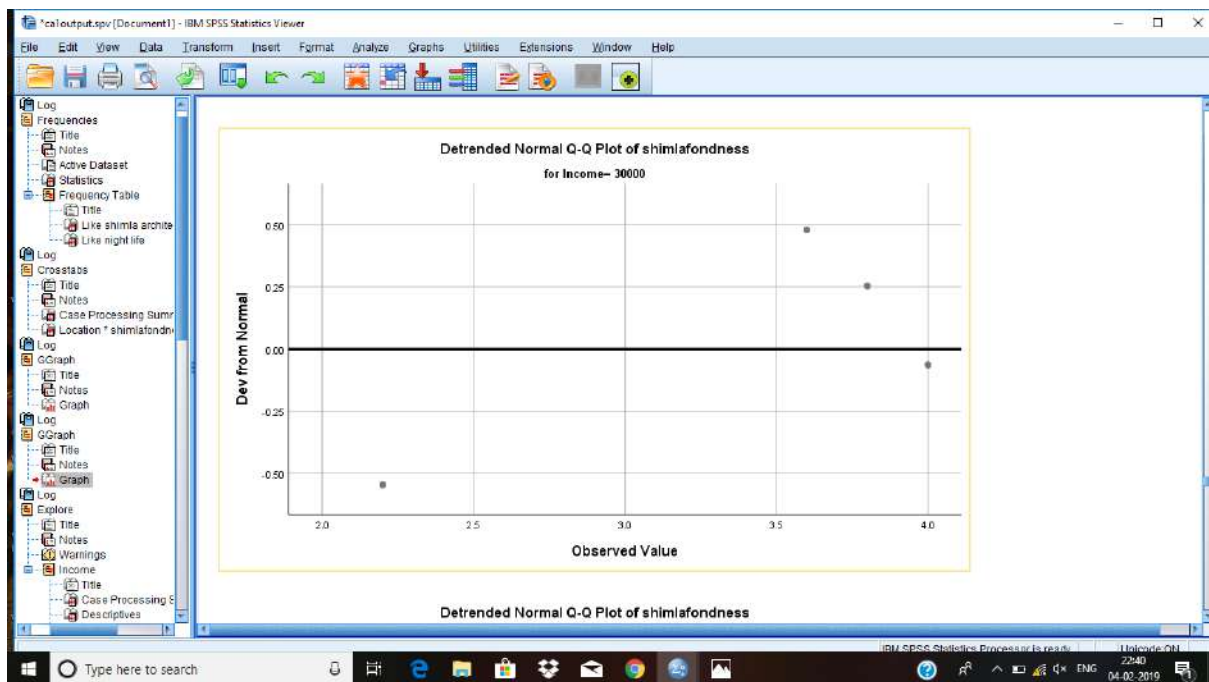


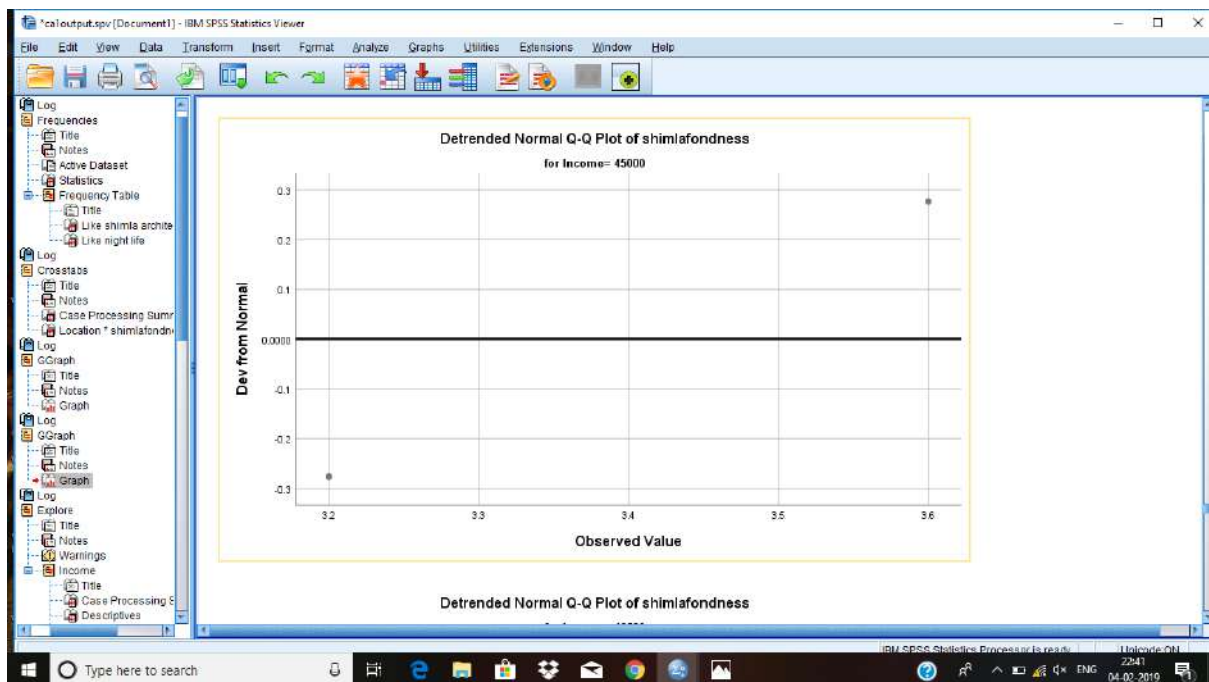
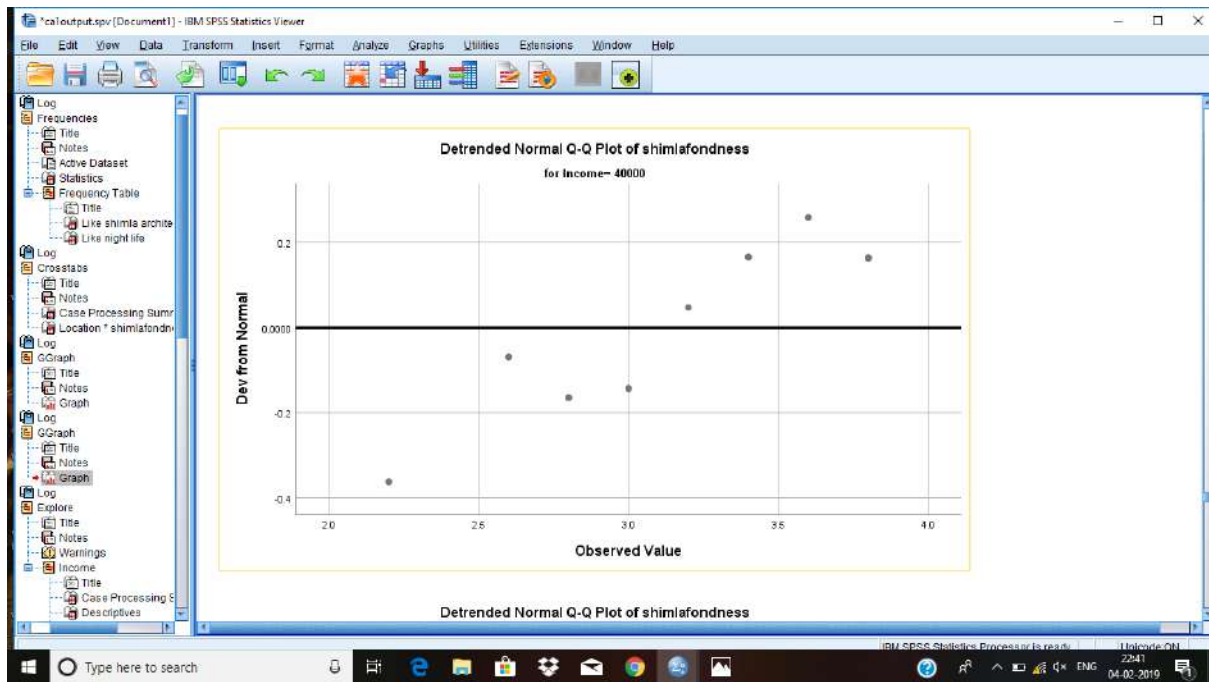


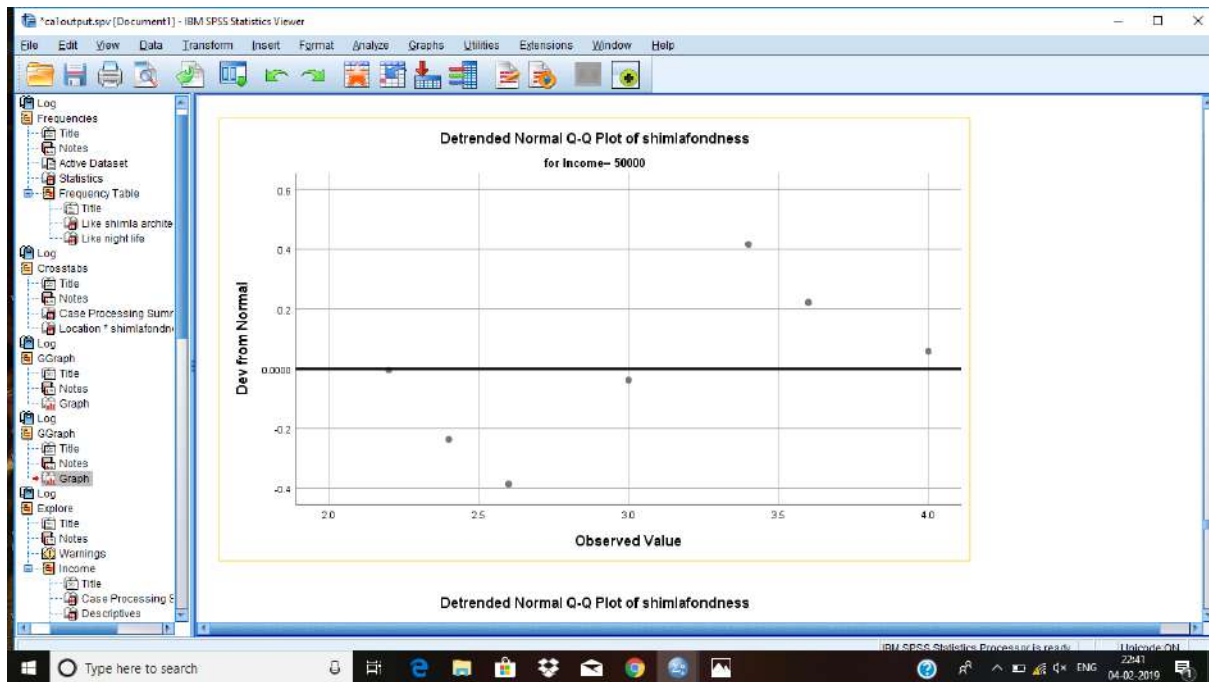
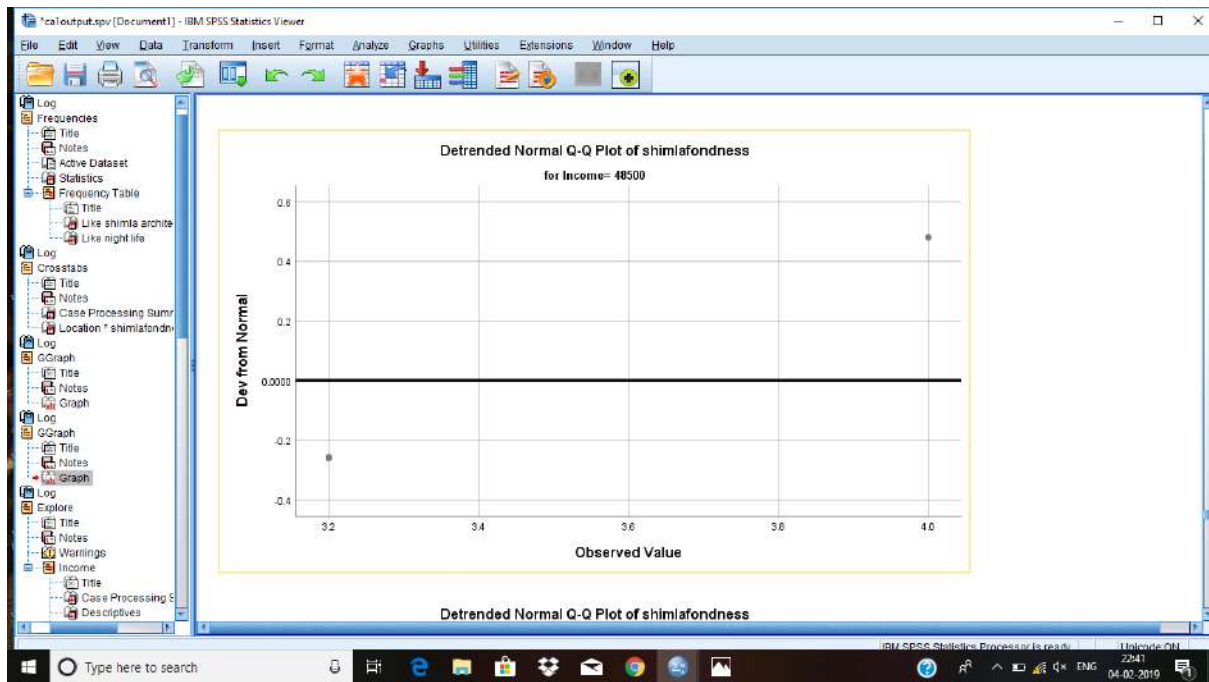


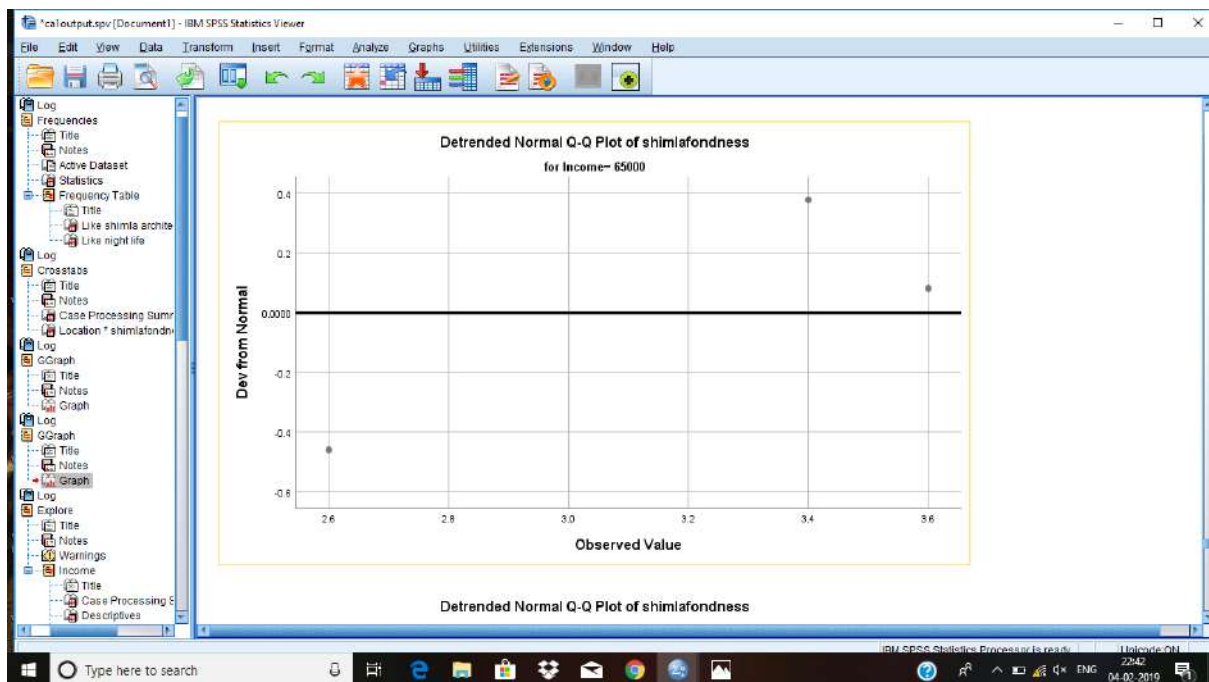
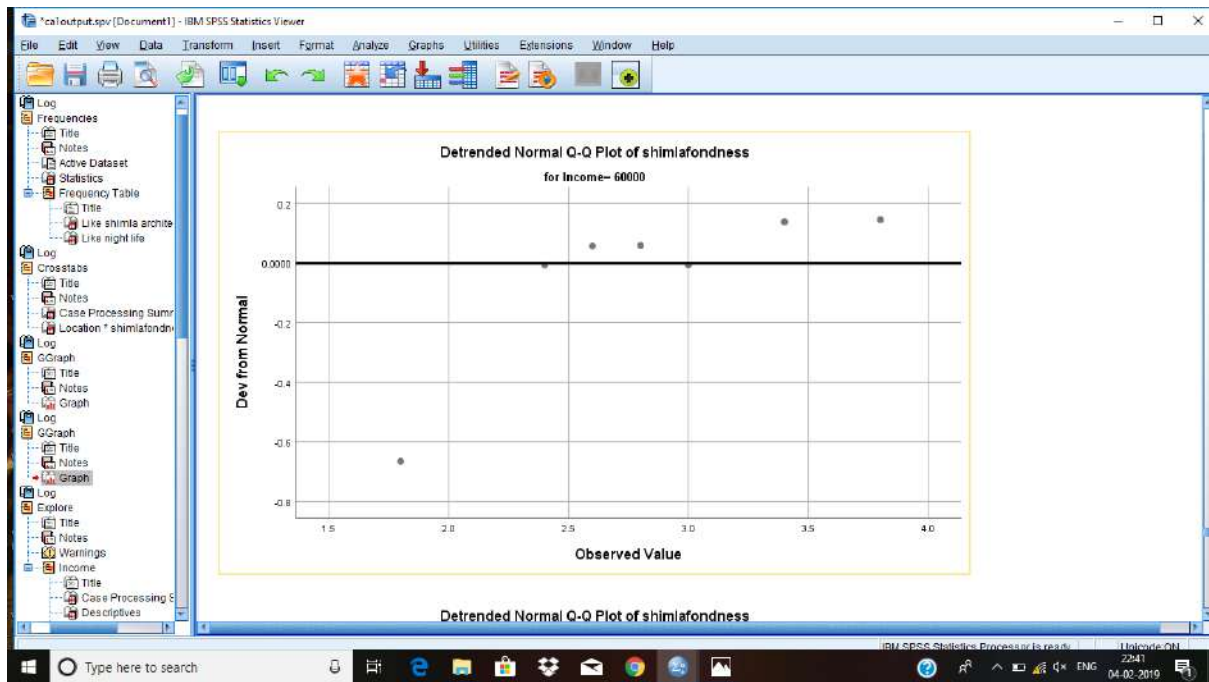


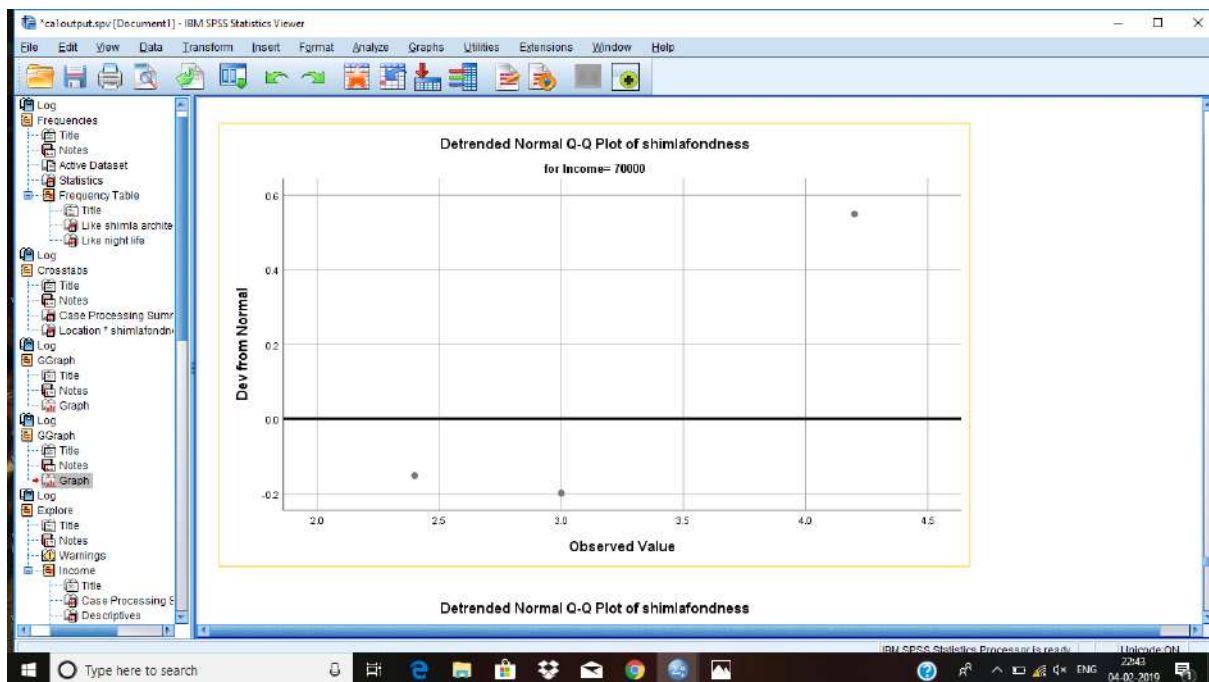
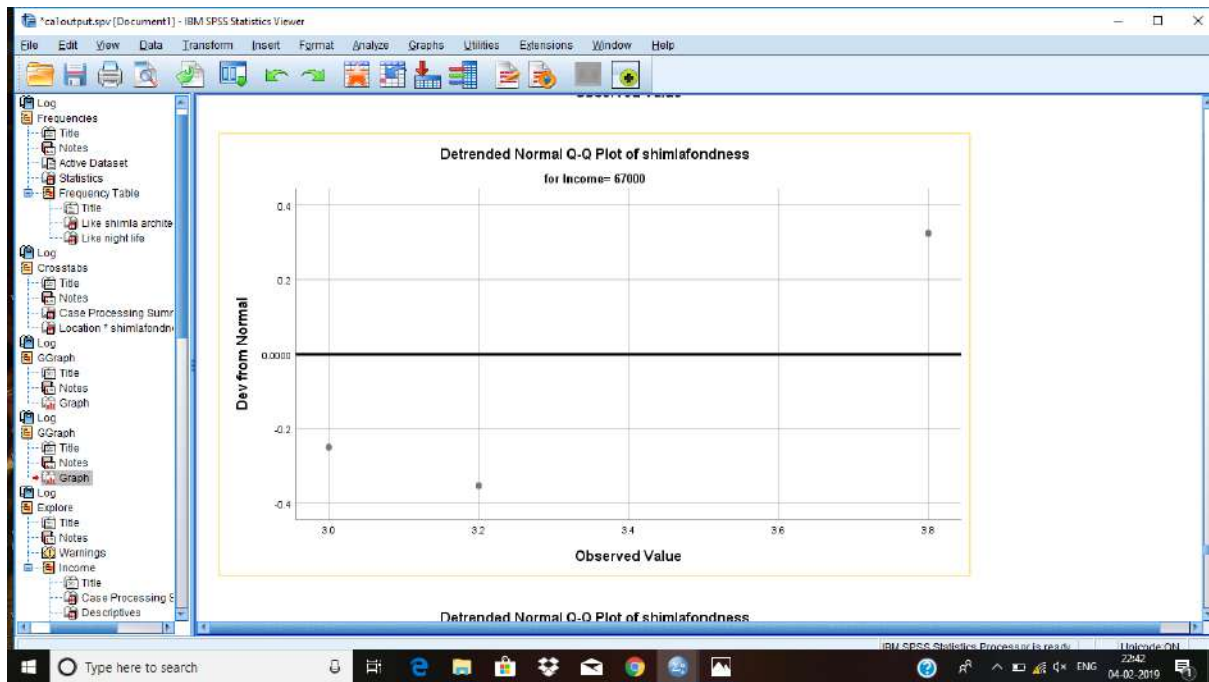


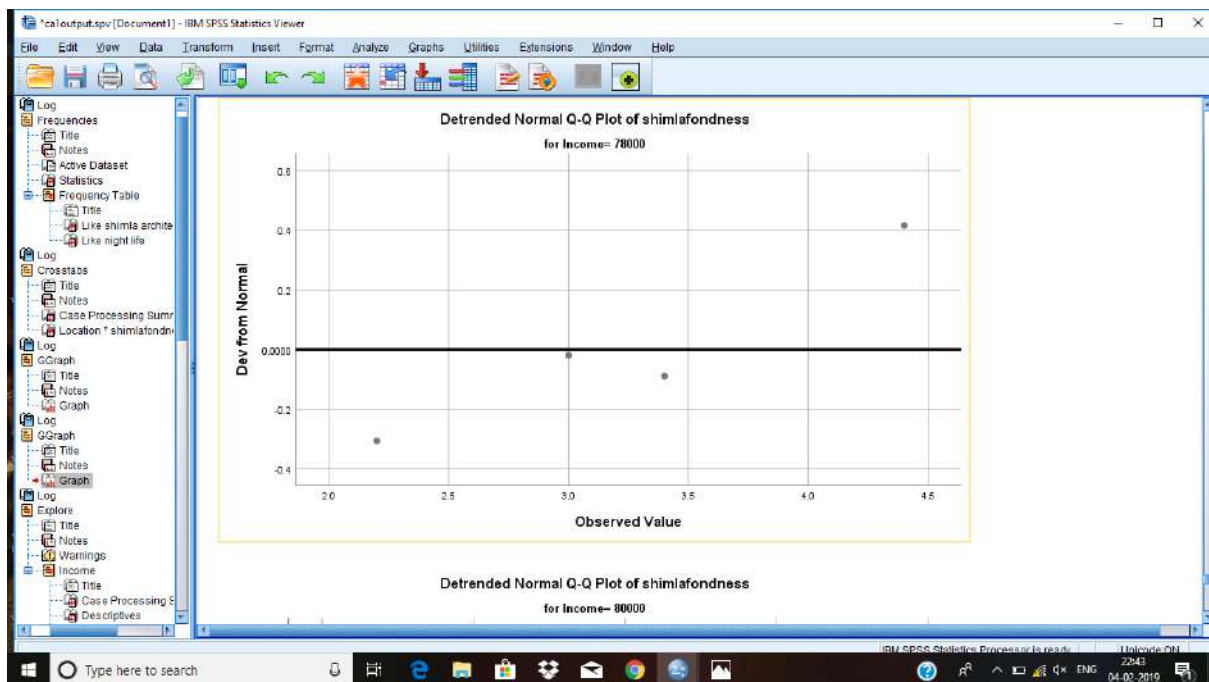
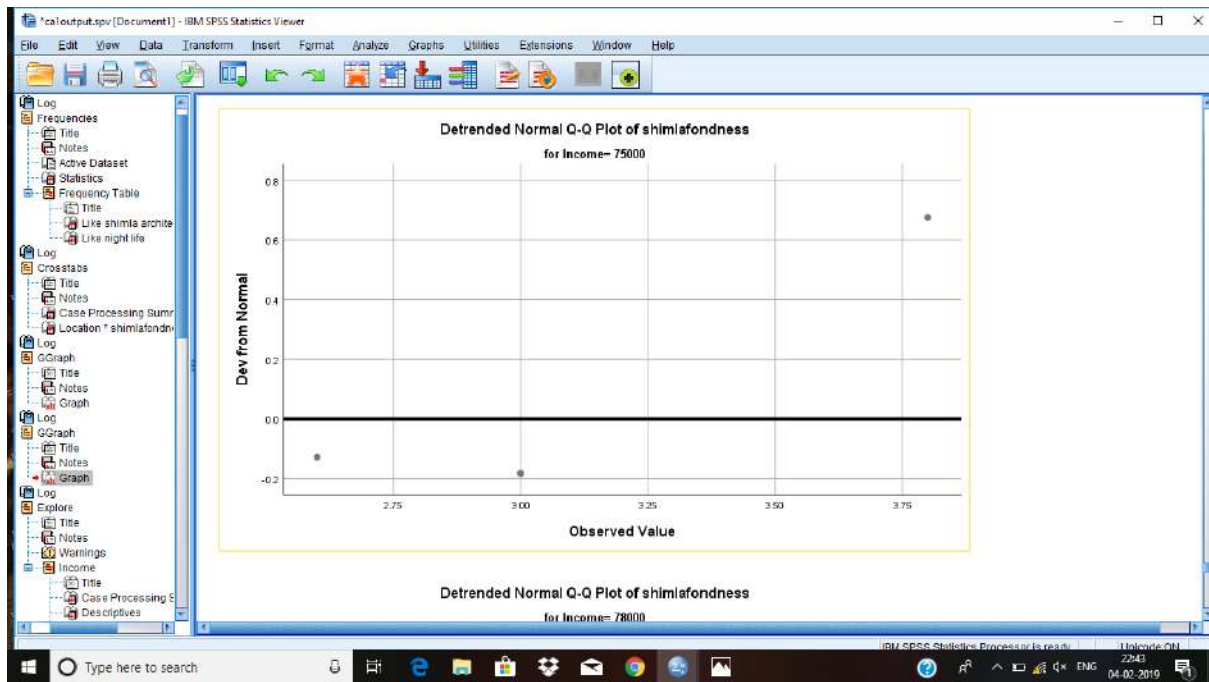


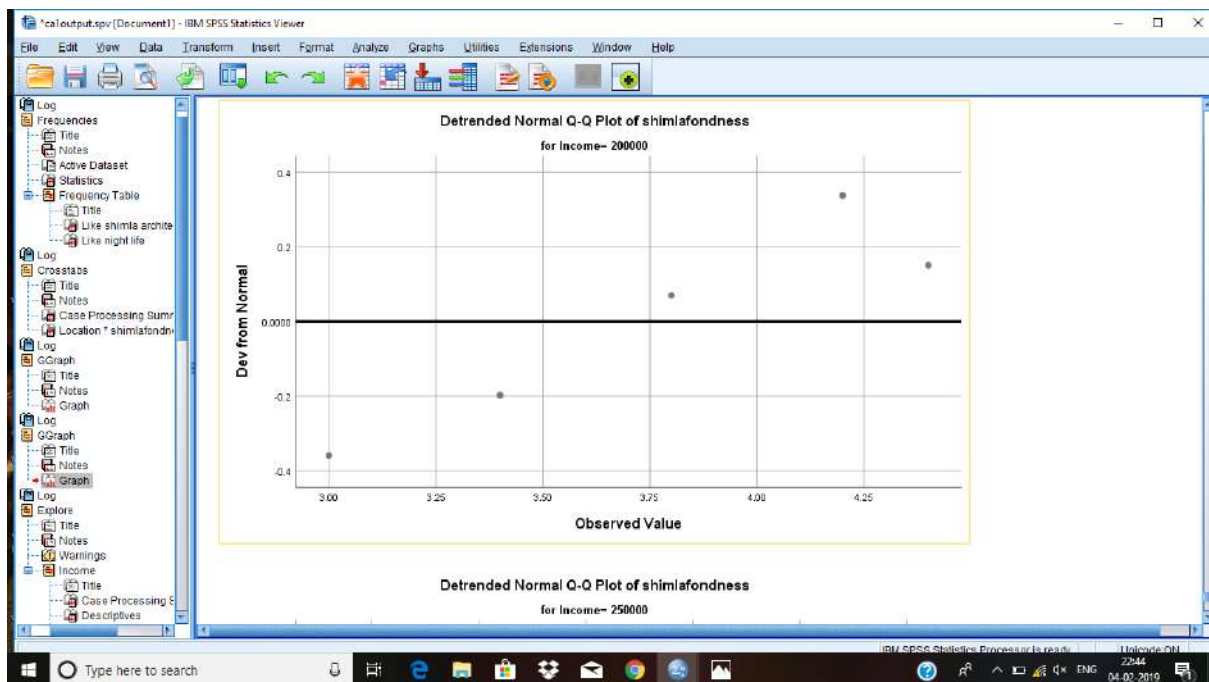
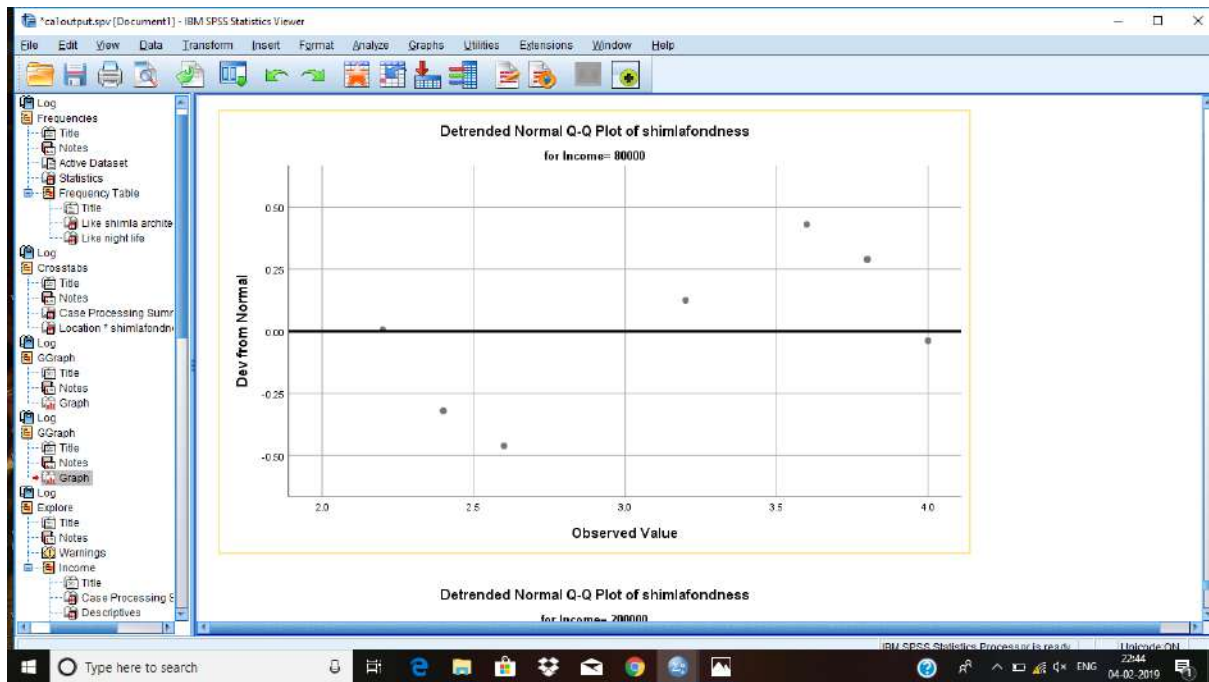


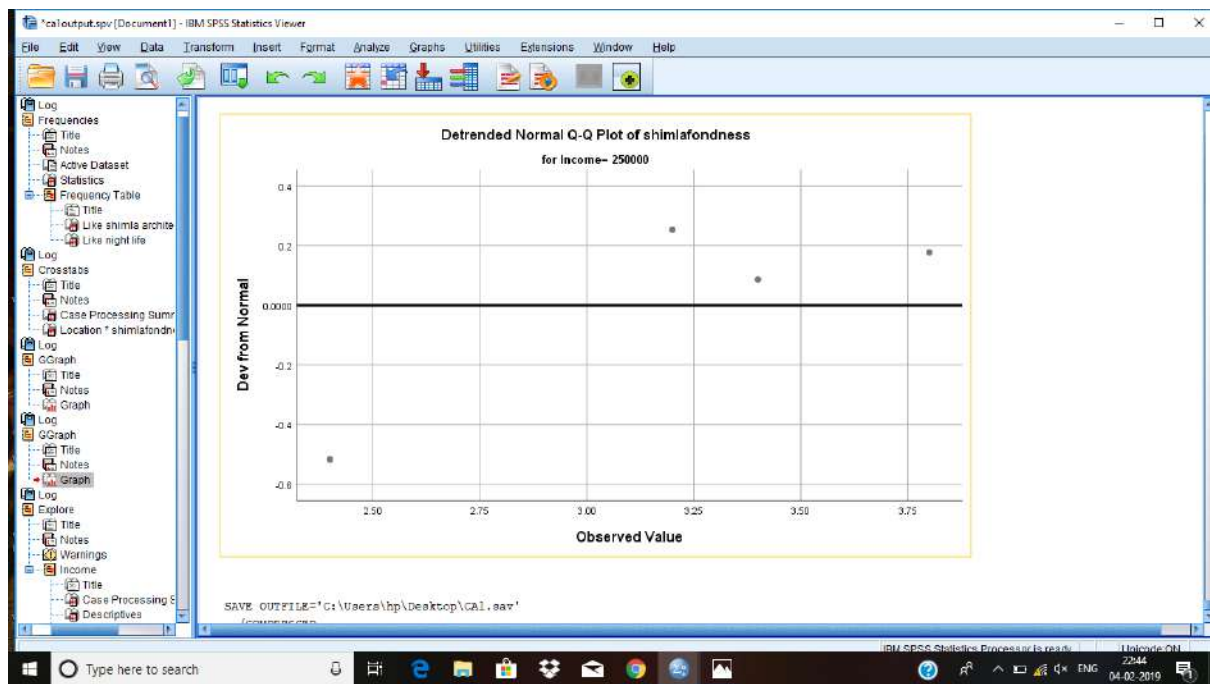












Thank You