Chitresh Kumar **Homework 2**

Question 1

A)

State=Alaska

Analysis Variable : Magnitude Magnitude							
N	Mean	Std Dev	Minimum	25th Pctl	Median	75th Pctl	Maximum
53	7.25	0.75	4.80	7.00	7.20	7.70	9.20

State=California

Analysis Variable : Magnitude Magnitude							
N	Mean	Std Dev	Minimum	25th Pctl	Median	75th Pctl	Maximum
116	5.76	1.19	3.00	4.85	6.10	6.65	7.90

B)

Analysis Variable : Magnitude Magnitude										
Year	State	N Obs	N	Mean	Std Dev	Minimum	25th Pctl	Median	75th Pctl	Maximum
2002	Alaska	3	3	6.63	1.30	5.30	5.30	6.70	7.90	7.90
	California	6	6	4.52	0.64	3.60	3.90	4.70	4.90	5.30
	Indiana	1	1	4.60	.	4.60	4.60	4.60	4.60	4.60
	New York	2	2	4.20	1.27	3.30	3.30	4.20	5.10	5.10
	Oregon	1	1	4.50	.	4.50	4.50	4.50	4.50	4.50
	South Carolina	1	1	4.40	.	4.40	4.40	4.40	4.40	4.40
	Washington	2	2	3.90	0.28	3.70	3.70	3.90	4.10	4.10
	Wyoming	1	1	4.20	.	4.20	4.20	4.20	4.20	4.20
2003	Alabama	1	1	4.60	.	4.60	4.60	4.60	4.60	4.60
	Alaska	4	4	7.10	0.51	6.60	6.75	7.00	7.45	7.80
	Arkansas	1	1	4.00	.	4.00	4.00	4.00	4.00	4.00
	California	15	15	4.29	0.88	3.40	3.60	4.00	4.70	6.60
	Hawaii	1	1	4.70	.	4.70	4.70	4.70	4.70	4.70
	Idaho	1	1	3.30	.	3.30	3.30	3.30	3.30	3.30
	Kentucky	1	1	4.00	.	4.00	4.00	4.00	4.00	4.00
	Massachusetts	1	1	3.60	.	3.60	3.60	3.60	3.60	3.60
	New Jersey	1	1	3.80	.	3.80	3.80	3.80	3.80	3.80

	Oregon	1	1	6.30	.	6.30	6.30	6.30	6.30	6.30
	South Dakota	1	1	4.00	.	4.00	4.00	4.00	4.00	4.00
	Virginia	2	2	4.20	0.42	3.90	3.90	4.20	4.50	4.50
	Washington	2	2	3.65	0.07	3.60	3.60	3.65	3.70	3.70
	Wyoming	1	1	4.50	.	4.50	4.50	4.50	4.50	4.50
2004	Alabama	1	1	3.60	.	3.60	3.60	3.60	3.60	3.60
	Alaska	1	1	6.80	.	6.80	6.80	6.80	6.80	6.80
	California	2	2	4.50	2.12	3.00	3.00	4.50	6.00	6.00
	Illinois	1	1	4.20	.	4.20	4.20	4.20	4.20	4.20
	Kentucky	1	1	3.70	.	3.70	3.70	3.70	3.70	3.70
	Oregon	1	1	4.90	.	4.90	4.90	4.90	4.90	4.90
	Wyoming	3	3	4.27	0.64	3.80	3.80	4.00	5.00	5.00
2005	Alaska	1	1	6.80	.	6.80	6.80	6.80	6.80	6.80
	Arkansas	2	2	4.15	0.07	4.10	4.10	4.15	4.20	4.20
	California	6	6	5.45	1.19	4.10	4.70	5.05	6.60	7.20
	Hawaii	2	2	5.20	0.14	5.10	5.10	5.20	5.30	5.30
	Montana	2	2	5.05	0.78	4.50	4.50	5.05	5.60	5.60
	New Mexico	2	2	4.55	0.64	4.10	4.10	4.55	5.00	5.00
2006	Alaska	1	1	4.80	.	4.80	4.80	4.80	4.80	4.80
	California	1	1	4.50	.	4.50	4.50	4.50	4.50	4.50
	Colorado	1	1	3.80	.	3.80	3.80	3.80	3.80	3.80
	Hawaii	1	1	6.70	.	6.70	6.70	6.70	6.70	6.70
	Illinois	1	1	3.60	.	3.60	3.60	3.60	3.60	3.60
	Maine	1	1	3.80	.	3.80	3.80	3.80	3.80	3.80
	Montana	1	1	4.20	.	4.20	4.20	4.20	4.20	4.20
2007	Alaska	4	4	6.70	0.36	6.40	6.45	6.60	6.95	7.20
	California	5	5	4.74	0.62	4.20	4.30	4.40	5.20	5.60
	Hawaii	1	1	5.40	.	5.40	5.40	5.40	5.40	5.40
	Montana	1	1	4.50	.	4.50	4.50	4.50	4.50	4.50
2008	Alaska	2	2	6.60	0.00	6.60	6.60	6.60	6.60	6.60
	California	2	2	5.45	0.07	5.40	5.40	5.45	5.50	5.50
	Illinois	1	1	5.40	.	5.40	5.40	5.40	5.40	5.40
	Nevada	2	2	5.50	0.71	5.00	5.00	5.50	6.00	6.00
2009	Alaska	1	1	5.80	.	5.80	5.80	5.80	5.80	5.80
	California	6	6	4.00	0.56	3.50	3.50	3.90	4.50	4.70
	Colorado	1	1	3.70	.	3.70	3.70	3.70	3.70	3.70

	Hawaii	1	1	5.20	.	5.20	5.20	5.20	5.20	5.20
	New Jersey	1	1	3.00	.	3.00	3.00	3.00	3.00	3.00
	Washington	1	1	4.50	.	4.50	4.50	4.50	4.50	4.50
2010	California	1	1	6.50	.	6.50	6.50	6.50	6.50	6.50
2011	Arkansas	1	1	4.70	.	4.70	4.70	4.70	4.70	4.70
	Colorado	1	1	5.30	.	5.30	5.30	5.30	5.30	5.30
	Ohio	1	1	4.00	.	4.00	4.00	4.00	4.00	4.00
	Oklahoma	1	1	5.60	.	5.60	5.60	5.60	5.60	5.60
	Virginia	1	1	5.80	.	5.80	5.80	5.80	5.80	5.80

C)

Year=2002

Analysis Variable : Magnitude Magnitude									
State	**N Obs**	**N**	**Mean**	**Std Dev**	**Minimum**	**25th Pctl**	**Median**	**75th Pctl**	**Maximum**
Alaska	3	3	6.63	1.30	5.30	5.30	6.70	7.90	7.90
California	6	6	4.52	0.64	3.60	3.90	4.70	4.90	5.30
Indiana	1	1	4.60	.	4.60	4.60	4.60	4.60	4.60
New York	2	2	4.20	1.27	3.30	3.30	4.20	5.10	5.10
Oregon	1	1	4.50	.	4.50	4.50	4.50	4.50	4.50
South Carolina	1	1	4.40	.	4.40	4.40	4.40	4.40	4.40
Washington	2	2	3.90	0.28	3.70	3.70	3.90	4.10	4.10
Wyoming	1	1	4.20	.	4.20	4.20	4.20	4.20	4.20

Year=2003

Analysis Variable : Magnitude Magnitude									
State	N Obs	N	Mean	Std Dev	Minimum	25th Pctl	Median	75th Pctl	Maximum
Alabama	1	1	4.60	.	4.60	4.60	4.60	4.60	4.60
Alaska	4	4	7.10	0.51	6.60	6.75	7.00	7.45	7.80
Arkansas	1	1	4.00	.	4.00	4.00	4.00	4.00	4.00
California	15	15	4.29	0.88	3.40	3.60	4.00	4.70	6.60
Hawaii	1	1	4.70	.	4.70	4.70	4.70	4.70	4.70
Idaho	1	1	3.30	.	3.30	3.30	3.30	3.30	3.30
Kentucky	1	1	4.00	.	4.00	4.00	4.00	4.00	4.00
Massachusetts	1	1	3.60	.	3.60	3.60	3.60	3.60	3.60
New Jersey	1	1	3.80	.	3.80	3.80	3.80	3.80	3.80
Oregon	1	1	6.30	.	6.30	6.30	6.30	6.30	6.30
South Dakota	1	1	4.00	.	4.00	4.00	4.00	4.00	4.00
Virginia	2	2	4.20	0.42	3.90	3.90	4.20	4.50	4.50
Washington	2	2	3.65	0.07	3.60	3.60	3.65	3.70	3.70
Wyoming	1	1	4.50	.	4.50	4.50	4.50	4.50	4.50

Year=2004

Analysis Variable : Magnitude Magnitude									
State	N Obs	N	Mean	Std Dev	Minimum	25th Pctl	Median	75th Pctl	Maximum
Alabama	1	1	3.60	.	3.60	3.60	3.60	3.60	3.60
Alaska	1	1	6.80	.	6.80	6.80	6.80	6.80	6.80
California	2	2	4.50	2.12	3.00	3.00	4.50	6.00	6.00
Illinois	1	1	4.20	.	4.20	4.20	4.20	4.20	4.20
Kentucky	1	1	3.70	.	3.70	3.70	3.70	3.70	3.70
Oregon	1	1	4.90	.	4.90	4.90	4.90	4.90	4.90
Wyoming	3	3	4.27	0.64	3.80	3.80	4.00	5.00	5.00

Year=2005

Analysis Variable : Magnitude Magnitude									
State	N Obs	N	Mean	Std Dev	Minimum	25th Pctl	Median	75th Pctl	Maximum
Alaska	1	1	6.80	.	6.80	6.80	6.80	6.80	6.80
Arkansas	2	2	4.15	0.07	4.10	4.10	4.15	4.20	4.20
California	6	6	5.45	1.19	4.10	4.70	5.05	6.60	7.20
Hawaii	2	2	5.20	0.14	5.10	5.10	5.20	5.30	5.30
Montana	2	2	5.05	0.78	4.50	4.50	5.05	5.60	5.60
New Mexico	2	2	4.55	0.64	4.10	4.10	4.55	5.00	5.00

Year=2006

Analysis Variable : Magnitude Magnitude									
State	N Obs	N	Mean	Std Dev	Minimum	25th Pctl	Median	75th Pctl	Maximum
Alaska	1	1	4.80	.	4.80	4.80	4.80	4.80	4.80
California	1	1	4.50	.	4.50	4.50	4.50	4.50	4.50
Colorado	1	1	3.80	.	3.80	3.80	3.80	3.80	3.80
Hawaii	1	1	6.70	.	6.70	6.70	6.70	6.70	6.70
Illinois	1	1	3.60	.	3.60	3.60	3.60	3.60	3.60
Maine	1	1	3.80	.	3.80	3.80	3.80	3.80	3.80
Montana	1	1	4.20	.	4.20	4.20	4.20	4.20	4.20

Year=2007

Analysis Variable : Magnitude Magnitude									
State	N Obs	N	Mean	Std Dev	Minimum	25th Pctl	Median	75th Pctl	Maximum
Alaska	4	4	6.70	0.36	6.40	6.45	6.60	6.95	7.20
California	5	5	4.74	0.62	4.20	4.30	4.40	5.20	5.60
Hawaii	1	1	5.40	.	5.40	5.40	5.40	5.40	5.40
Montana	1	1	4.50	.	4.50	4.50	4.50	4.50	4.50

Chitresh Kumar **Homework 2**

Year=2008

Analysis Variable : Magnitude Magnitude									
State	N Obs	N	Mean	Std Dev	Minimum	25th Pctl	Median	75th Pctl	Maximum
Alaska	2	2	6.60	0.00	6.60	6.60	6.60	6.60	6.60
California	2	2	5.45	0.07	5.40	5.40	5.45	5.50	5.50
Illinois	1	1	5.40	.	5.40	5.40	5.40	5.40	5.40
Nevada	2	2	5.50	0.71	5.00	5.00	5.50	6.00	6.00

Year=2009

Analysis Variable : Magnitude Magnitude									
State	N Obs	N	Mean	Std Dev	Minimum	25th Pctl	Median	75th Pctl	Maximum
Alaska	1	1	5.80	.	5.80	5.80	5.80	5.80	5.80
California	6	6	4.00	0.56	3.50	3.50	3.90	4.50	4.70
Colorado	1	1	3.70	.	3.70	3.70	3.70	3.70	3.70
Hawaii	1	1	5.20	.	5.20	5.20	5.20	5.20	5.20
New Jersey	1	1	3.00	.	3.00	3.00	3.00	3.00	3.00
Washington	1	1	4.50	.	4.50	4.50	4.50	4.50	4.50

Year=2010

Analysis Variable : Magnitude Magnitude									
State	N Obs	N	Mean	Std Dev	Minimum	25th Pctl	Median	75th Pctl	Maximum
California	1	1	6.50	.	6.50	6.50	6.50	6.50	6.50

Chitresh Kumar **Homework 2**

Year=2011

Analysis Variable : Magnitude Magnitude									
State	N Obs	N	Mean	Std Dev	Minimum	25th Pctl	Median	75th Pctl	Maximum
Arkansas	1	1	4.70	.	4.70	4.70	4.70	4.70	4.70
Colorado	1	1	5.30	.	5.30	5.30	5.30	5.30	5.30
Ohio	1	1	4.00	.	4.00	4.00	4.00	4.00	4.00
Oklahoma	1	1	5.60	.	5.60	5.60	5.60	5.60	5.60
Virginia	1	1	5.80	.	5.80	5.80	5.80	5.80	5.80

D)

		State													
		Alabama							Alaska						
		Mean	Median	StdDev	Min	Max	P25	P75	Mean	Median	StdDev	Min	Max	P25	P75
Year															
2002	Magnitude	.	.	.	.	.	.	.	6.63	6.70	1.30	5.30	7.90	5.30	7.90
2003	Magnitude	4.60	4.60	.	4.60	4.60	4.60	4.60	7.10	7.00	0.51	6.60	7.80	6.75	7.45
2004	Magnitude	3.60	3.60	.	3.60	3.60	3.60	3.60	6.80	6.80	.	6.80	6.80	6.80	6.80
2005	Magnitude	.	.	.	.	.	.	.	6.80	6.80	.	6.80	6.80	6.80	6.80
2006	Magnitude	.	.	.	.	.	.	.	4.80	4.80	.	4.80	4.80	4.80	4.80
2007	Magnitude	.	.	.	.	.	.	.	6.70	6.60	0.36	6.40	7.20	6.45	6.95
2008	Magnitude	.	.	.	.	.	.	.	6.60	6.60	0.00	6.60	6.60	6.60	6.60
2009	Magnitude	.	.	.	.	.	.	.	5.80	5.80	.	5.80	5.80	5.80	5.80
2010	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2011	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.

		State													
		Arkansas							California						
		Mean	Median	StdDev	Min	Max	P25	P75	Mean	Median	StdDev	Min	Max	P25	P75
Year															
2002	Magnitude	.	.	.	.	.	.	.	4.52	4.70	0.64	3.60	5.30	3.90	4.90
2003	Magnitude	4.00	4.00	.	4.00	4.00	4.00	4.00	4.29	4.00	0.88	3.40	6.60	3.60	4.70

2004	**Magnitude**	.	.	.	.	.	.	.	4.50	4.50	2.12	3.00	6.00	3.00	6.00
2005	**Magnitude**	4.15	4.15	0.07	4.10	4.20	4.10	4.20	5.45	5.05	1.19	4.10	7.20	4.70	6.60
2006	**Magnitude**	.	.	.	.	.	.	.	4.50	4.50	.	4.50	4.50	4.50	4.50
2007	**Magnitude**	.	.	.	.	.	.	.	4.74	4.40	0.62	4.20	5.60	4.30	5.20
2008	**Magnitude**	.	.	.	.	.	.	.	5.45	5.45	0.07	5.40	5.50	5.40	5.50
2009	**Magnitude**	.	.	.	.	.	.	.	4.00	3.90	0.56	3.50	4.70	3.50	4.50
2010	**Magnitude**	.	.	.	.	.	.	.	6.50	6.50	.	6.50	6.50	6.50	6.50
2011	**Magnitude**	4.70	4.70	.	4.70	4.70	4.70	4.70	.	.	.	.	.	.	.

		State													
		Colorado							**Hawaii**						
		Mean	**Median**	**StdDev**	**Min**	**Max**	**P25**	**P75**	**Mean**	**Median**	**StdDev**	**Min**	**Max**	**P25**	**P75**
Year															
2002	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2003	**Magnitude**	.	.	.	.	.	.	.	4.70	4.70	.	4.70	4.70	4.70	4.70
2004	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2005	**Magnitude**	.	.	.	.	.	.	.	5.20	5.20	0.14	5.10	5.30	5.10	5.30
2006	**Magnitude**	3.80	3.80	.	3.80	3.80	3.80	3.80	6.70	6.70	.	6.70	6.70	6.70	6.70
2007	**Magnitude**	.	.	.	.	.	.	.	5.40	5.40	.	5.40	5.40	5.40	5.40
2008	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2009	**Magnitude**	3.70	3.70	.	3.70	3.70	3.70	3.70	5.20	5.20	.	5.20	5.20	5.20	5.20
2010	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2011	**Magnitude**	5.30	5.30	.	5.30	5.30	5.30	5.30	.	.	.	.	.	.	.

		State													
		Idaho							**Illinois**						
		Mean	**Median**	**StdDev**	**Min**	**Max**	**P25**	**P75**	**Mean**	**Median**	**StdDev**	**Min**	**Max**	**P25**	**P75**
Year															
2002	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2003	**Magnitude**	3.30	3.30	.	3.30	3.30	3.30	3.30	.	.	.	.	.	.	.
2004	**Magnitude**	.	.	.	.	.	.	.	4.20	4.20	.	4.20	4.20	4.20	4.20
2005	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2006	**Magnitude**	.	.	.	.	.	.	.	3.60	3.60	.	3.60	3.60	3.60	3.60
2007	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.

2008	**Magnitude**	.	.	.	.	.	.	.	5.40	5.40	.	5.40	5.40	5.40	5.40
2009	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2010	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2011	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.

		State													
		Indiana							**Kentucky**						
		Mean	**Median**	**StdDev**	**Min**	**Max**	**P25**	**P75**	**Mean**	**Median**	**StdDev**	**Min**	**Max**	**P25**	**P75**
Year															
2002	**Magnitude**	4.60	4.60	.	4.60	4.60	4.60	4.60	.	.	.	.	.	.	.
2003	**Magnitude**	.	.	.	.	.	.	.	4.00	4.00	.	4.00	4.00	4.00	4.00
2004	**Magnitude**	.	.	.	.	.	.	.	3.70	3.70	.	3.70	3.70	3.70	3.70
2005	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2006	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2007	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2008	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2009	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2010	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2011	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.

		State													
		Maine							**Massachusetts**						
		Mean	**Median**	**StdDev**	**Min**	**Max**	**P25**	**P75**	**Mean**	**Median**	**StdDev**	**Min**	**Max**	**P25**	**P75**
Year															
2002	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2003	**Magnitude**	.	.	.	.	.	.	.	3.60	3.60	.	3.60	3.60	3.60	3.60
2004	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2005	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2006	**Magnitude**	3.80	3.80	.	3.80	3.80	3.80	3.80	.	.	.	.	.	.	.
2007	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2008	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2009	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2010	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2011	**Magnitude**	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Chitresh Kumar **Homework 2**

		State													
		Montana							Nevada						
		Mean	Median	StdDev	Min	Max	P25	P75	Mean	Median	StdDev	Min	Max	P25	P75
Year															
2002	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2003	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2004	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2005	Magnitude	5.05	5.05	0.78	4.50	5.60	4.50	5.60	.	.	.	.	.	.	.
2006	Magnitude	4.20	4.20	.	4.20	4.20	4.20	4.20	.	.	.	.	.	.	.
2007	Magnitude	4.50	4.50	.	4.50	4.50	4.50	4.50	.	.	.	.	.	.	.
2008	Magnitude	.	.	.	.	.	.	.	5.50	5.50	0.71	5.00	6.00	5.00	6.00
2009	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2010	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2011	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.

		State													
		New Jersey							New Mexico						
		Mean	Median	StdDev	Min	Max	P25	P75	Mean	Median	StdDev	Min	Max	P25	P75
Year															
2002	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2003	Magnitude	3.80	3.80	.	3.80	3.80	3.80	3.80	.	.	.	.	.	.	.
2004	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2005	Magnitude	.	.	.	.	.	.	.	4.55	4.55	0.64	4.10	5.00	4.10	5.00
2006	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2007	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2008	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2009	Magnitude	3.00	3.00	.	3.00	3.00	3.00	3.00	.	.	.	.	.	.	.
2010	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2011	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Chitresh Kumar **Homework 2**

		State													
		New York							Ohio						
		Mean	Median	StdDev	Min	Max	P25	P75	Mean	Median	StdDev	Min	Max	P25	P75
Year															
2002	Magnitude	4.20	4.20	1.27	3.30	5.10	3.30	5.10	.	.	.	.	.	.	.
2003	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2004	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2005	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2006	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2007	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2008	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2009	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2010	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2011	Magnitude	.	.	.	.	.	.	.	4.00	4.00	.	4.00	4.00	4.00	4.00

		State													
		Oklahoma							Oregon						
		Mean	Median	StdDev	Min	Max	P25	P75	Mean	Median	StdDev	Min	Max	P25	P75
Year															
2002	Magnitude	.	.	.	.	.	.	.	4.50	4.50	.	4.50	4.50	4.50	4.50
2003	Magnitude	.	.	.	.	.	.	.	6.30	6.30	.	6.30	6.30	6.30	6.30
2004	Magnitude	.	.	.	.	.	.	.	4.90	4.90	.	4.90	4.90	4.90	4.90
2005	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2006	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2007	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2008	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2009	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2010	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2011	Magnitude	5.60	5.60	.	5.60	5.60	5.60	5.60	.	.	.	.	.	.	.

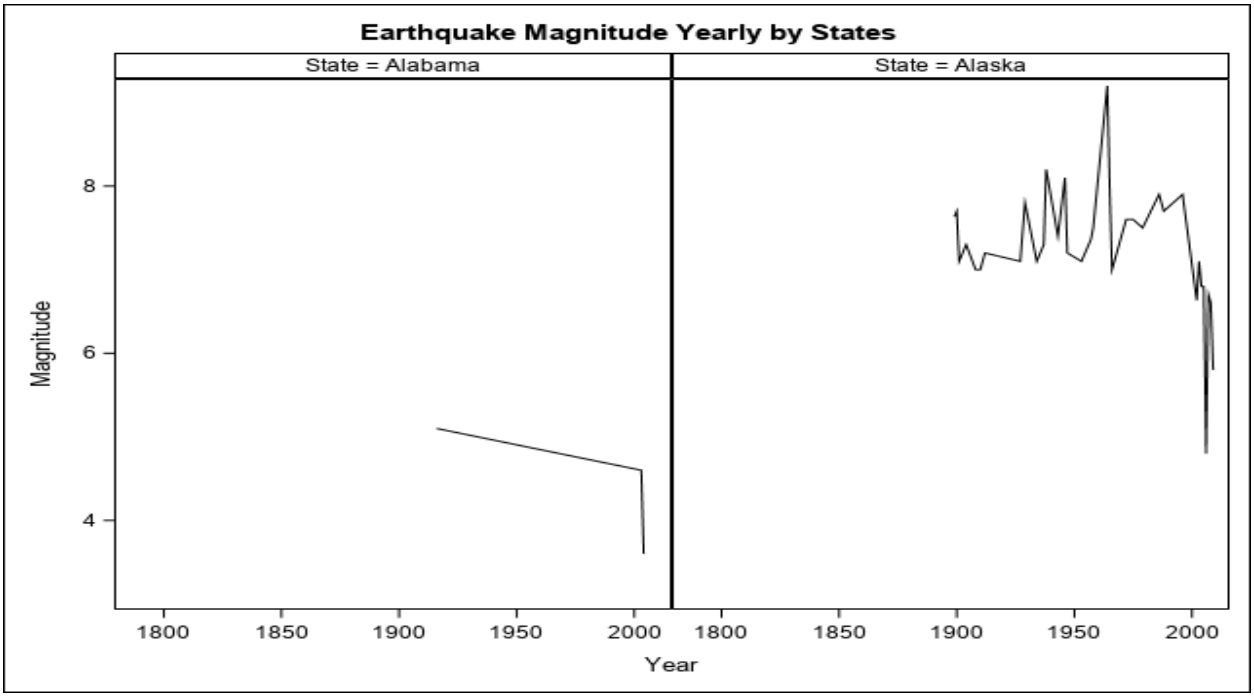
Chitresh Kumar **Homework 2**

		State													
		South Carolina							South Dakota						
		Mean	Median	StdDev	Min	Max	P25	P75	Mean	Median	StdDev	Min	Max	P25	P75
Year															
2002	Magnitude	4.40	4.40	.	4.40	4.40	4.40	4.40	.	.	.	.	.	.	.
2003	Magnitude	.	.	.	.	.	.	.	4.00	4.00	.	4.00	4.00	4.00	4.00
2004	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2005	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2006	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2007	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2008	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2009	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2010	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2011	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.

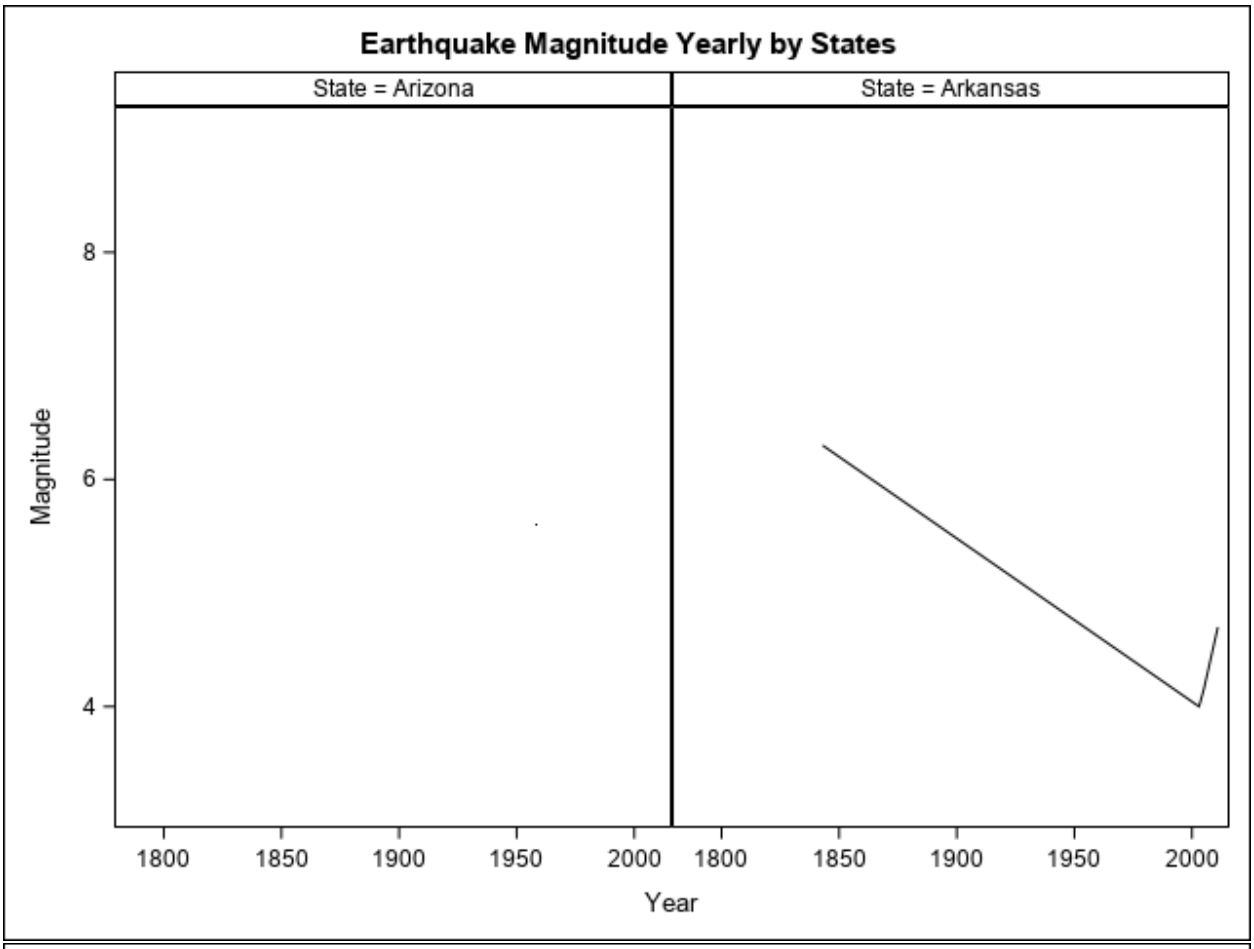
		State													
		Virginia							Washington						
		Mean	Median	StdDev	Min	Max	P25	P75	Mean	Median	StdDev	Min	Max	P25	P75
Year															
2002	Magnitude	.	.	.	.	.	.	.	3.90	3.90	0.28	3.70	4.10	3.70	4.10
2003	Magnitude	4.20	4.20	0.42	3.90	4.50	3.90	4.50	3.65	3.65	0.07	3.60	3.70	3.60	3.70
2004	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2005	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2006	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2007	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2008	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2009	Magnitude	.	.	.	.	.	.	.	4.50	4.50	.	4.50	4.50	4.50	4.50
2010	Magnitude	.	.	.	.	.	.	.	.	.	.	.	.	.	.
2011	Magnitude	5.80	5.80	.	5.80	5.80	5.80	5.80	.	.	.	.	.	.	.

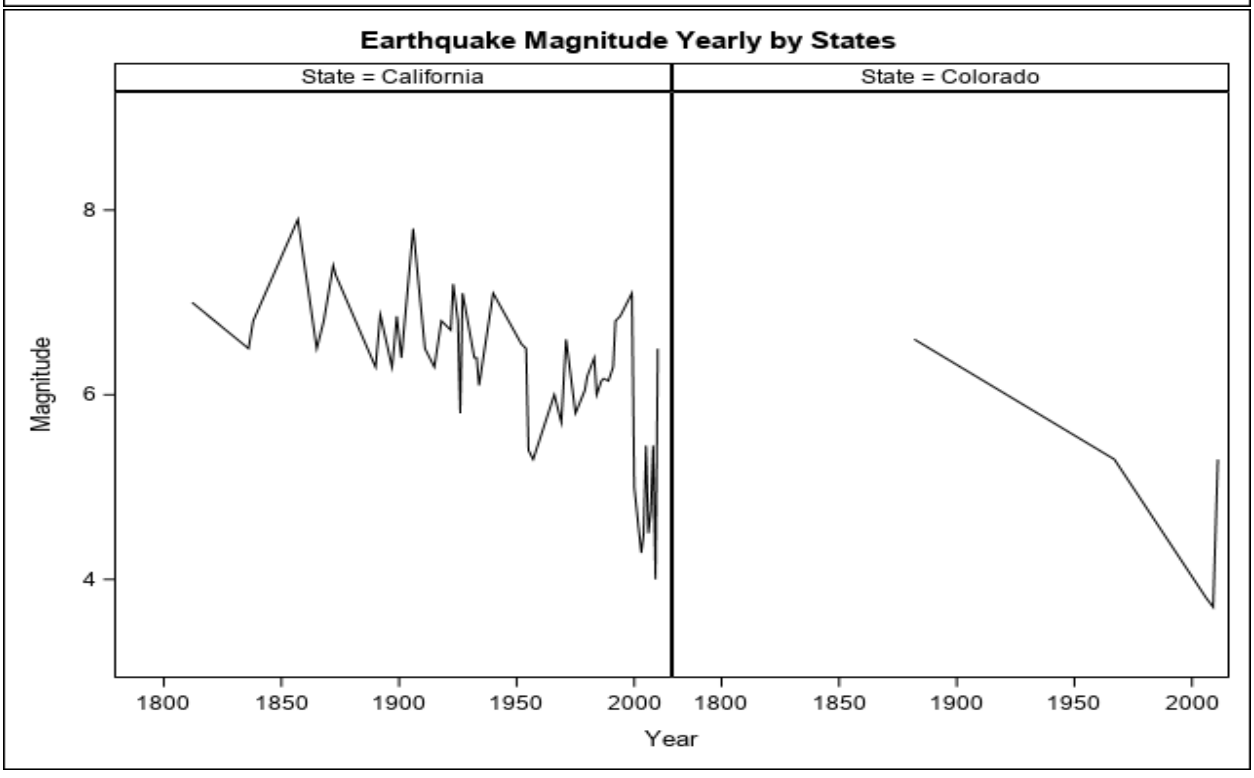
		State Wyoming						
		Mean	**Median**	**StdDev**	**Min**	**Max**	**P25**	**P75**
Year								
2002	**Magnitude**	4.20	4.20	.	4.20	4.20	4.20	4.20
2003	**Magnitude**	4.50	4.50	.	4.50	4.50	4.50	4.50
2004	**Magnitude**	4.27	4.00	0.64	3.80	5.00	3.80	5.00
2005	**Magnitude**	.	.	.	.	.	.	.
2006	**Magnitude**	.	.	.	.	.	.	.
2007	**Magnitude**	.	.	.	.	.	.	.
2008	**Magnitude**	.	.	.	.	.	.	.
2009	**Magnitude**	.	.	.	.	.	.	.
2010	**Magnitude**	.	.	.	.	.	.	.
2011	**Magnitude**	.	.	.	.	.	.	.

E)

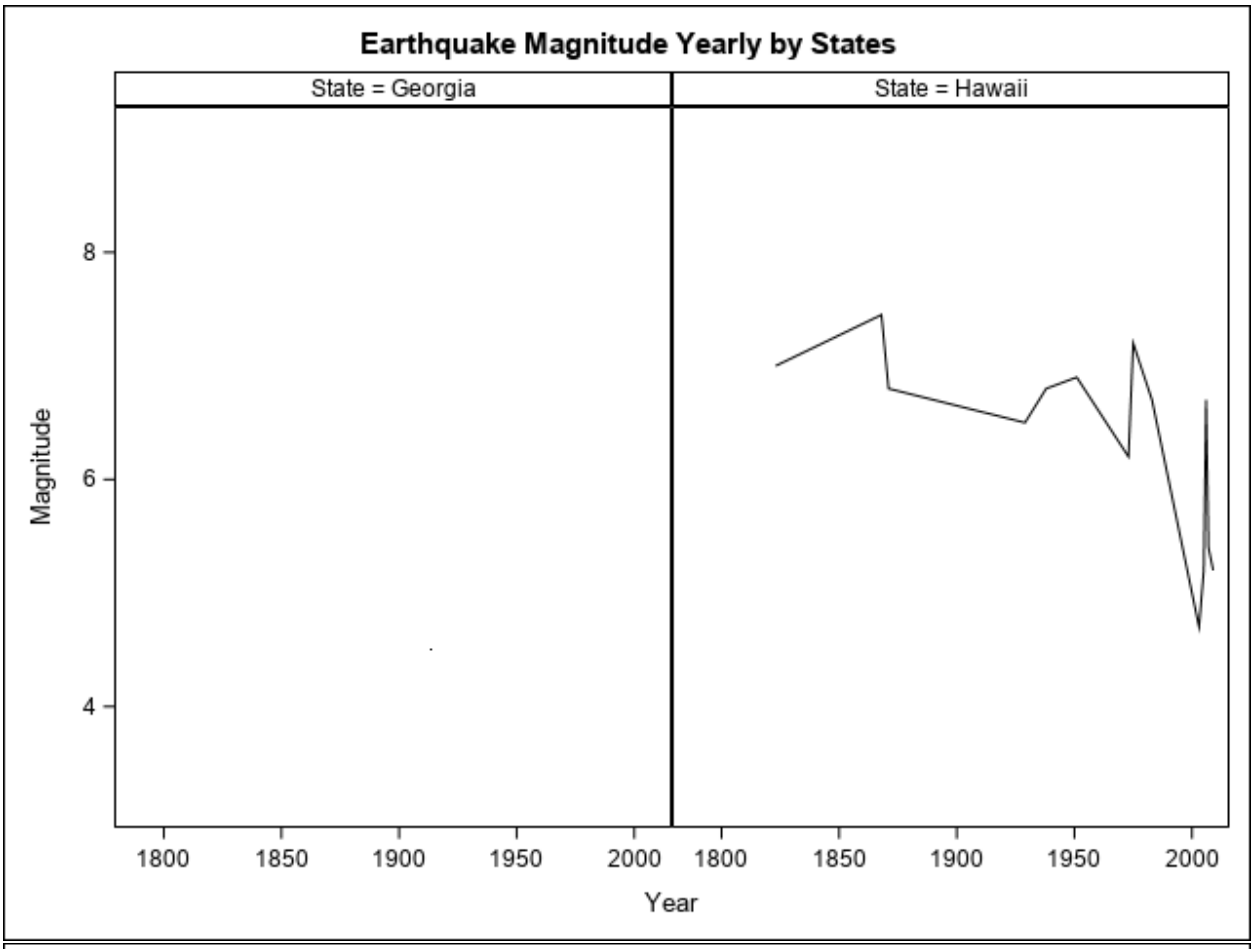


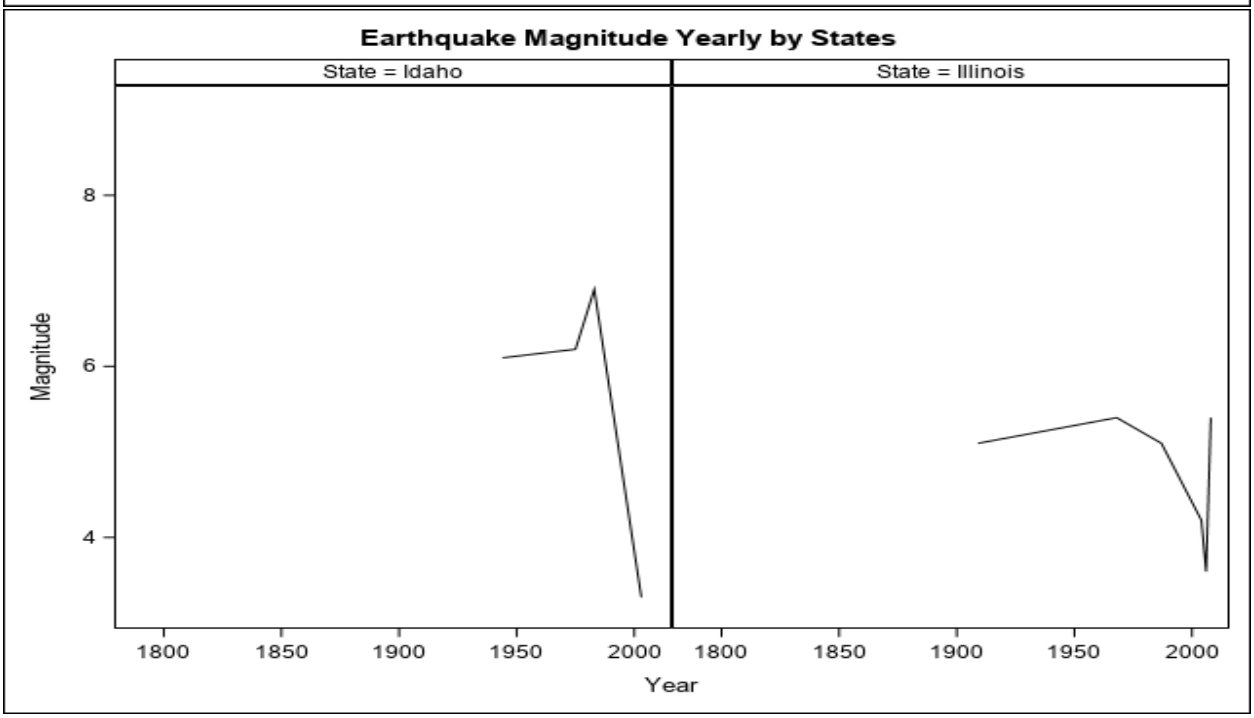
Chitresh Kumar **Homework 2**



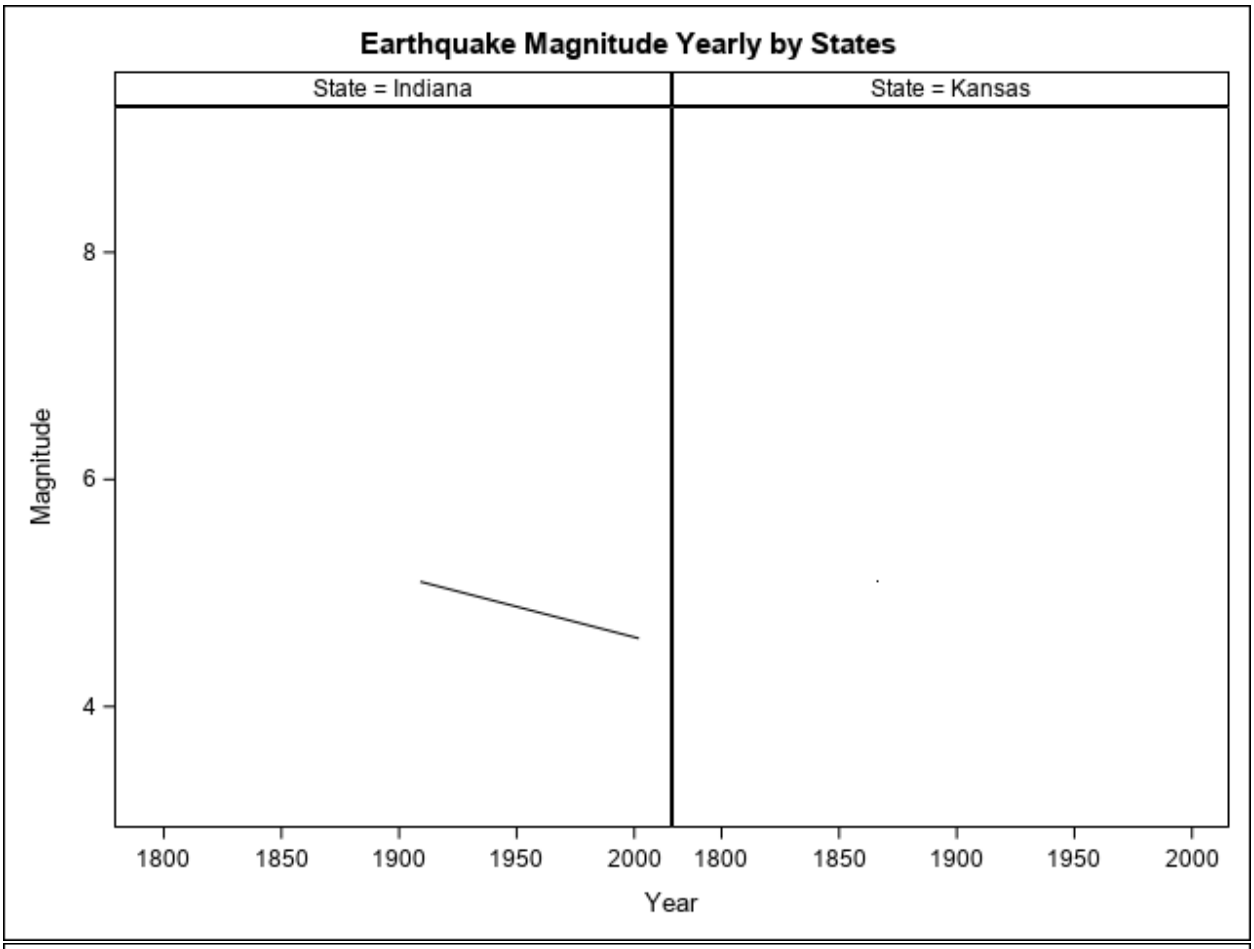


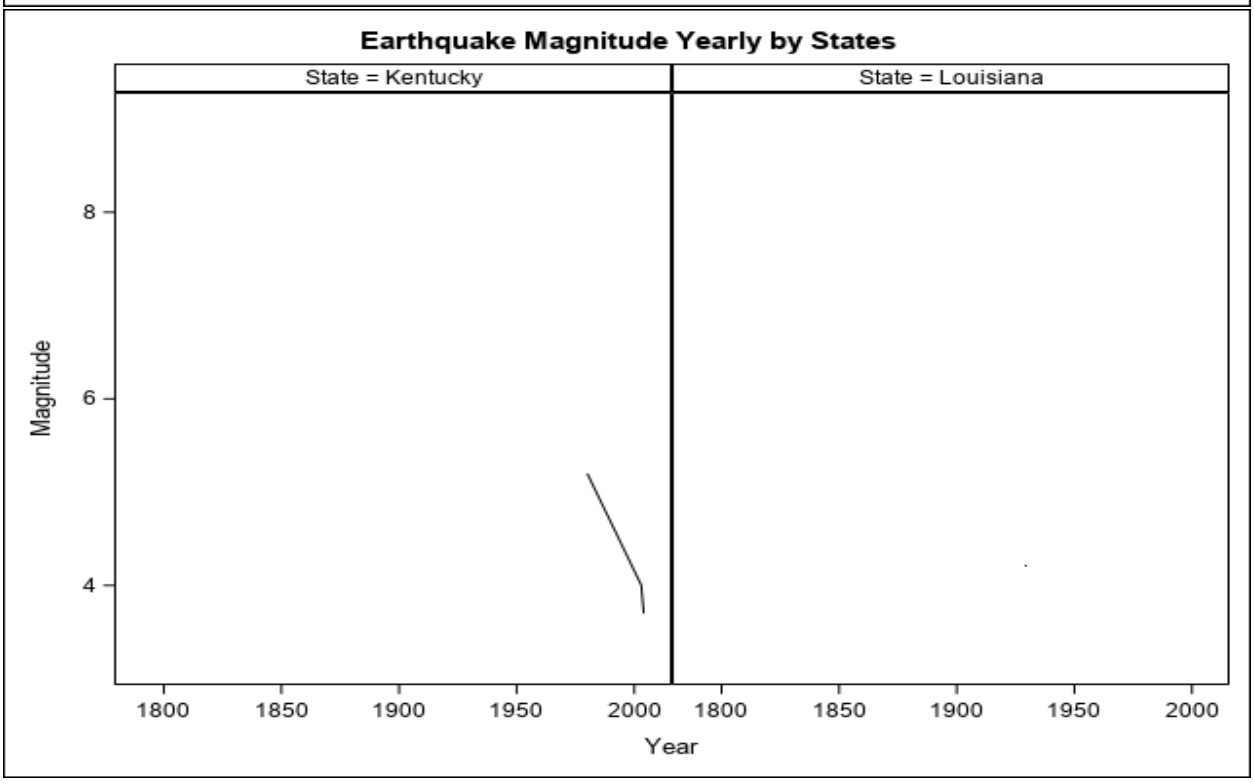
Chitresh Kumar **Homework 2**



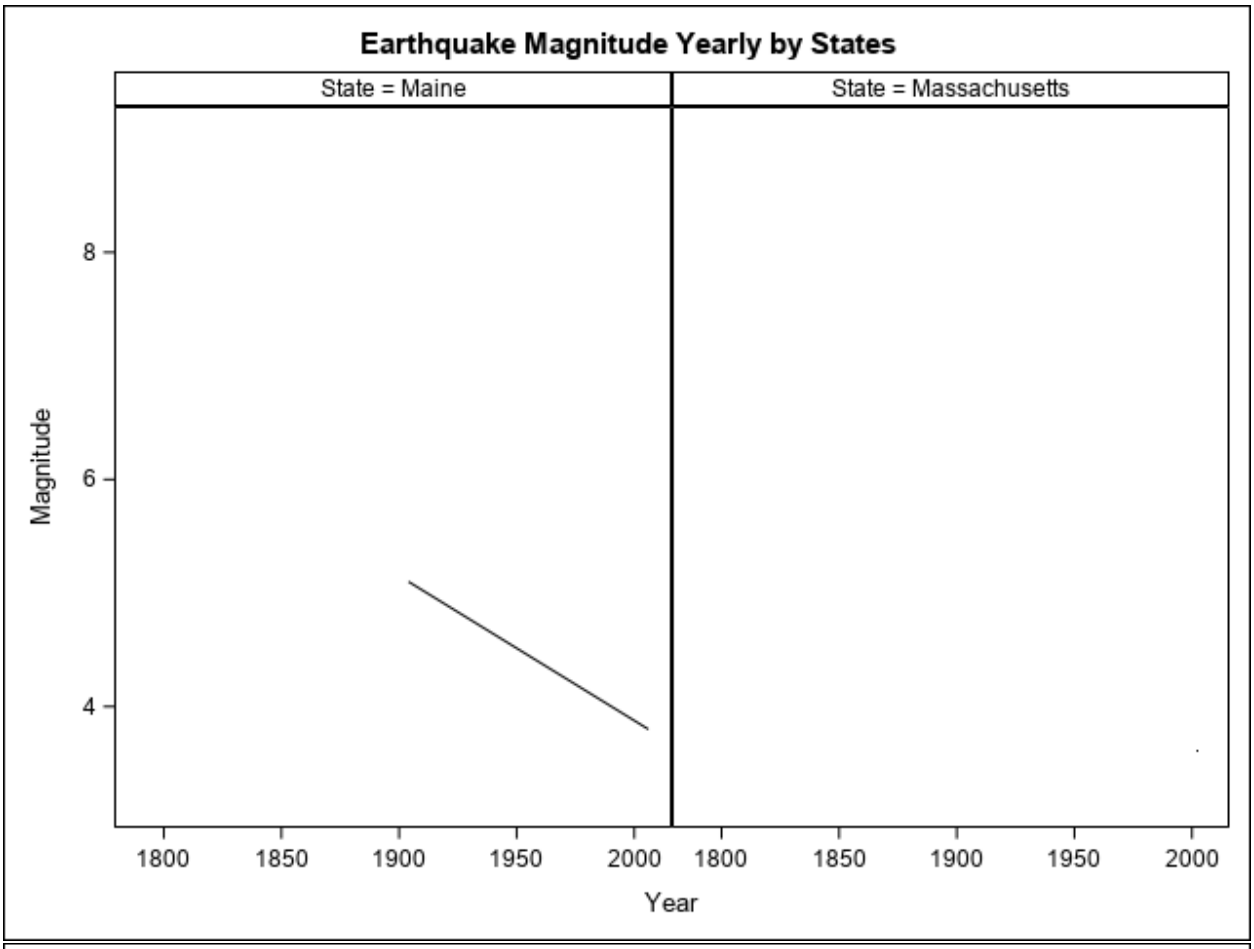


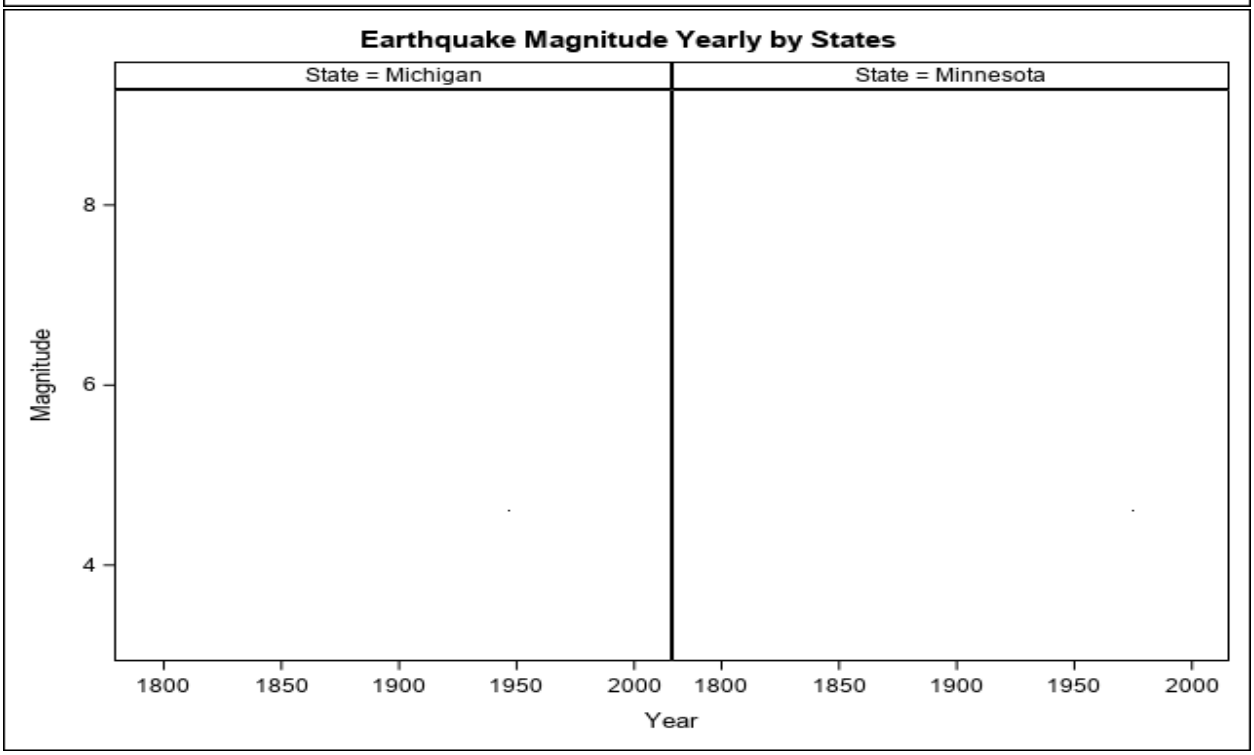
Chitresh Kumar **Homework 2**



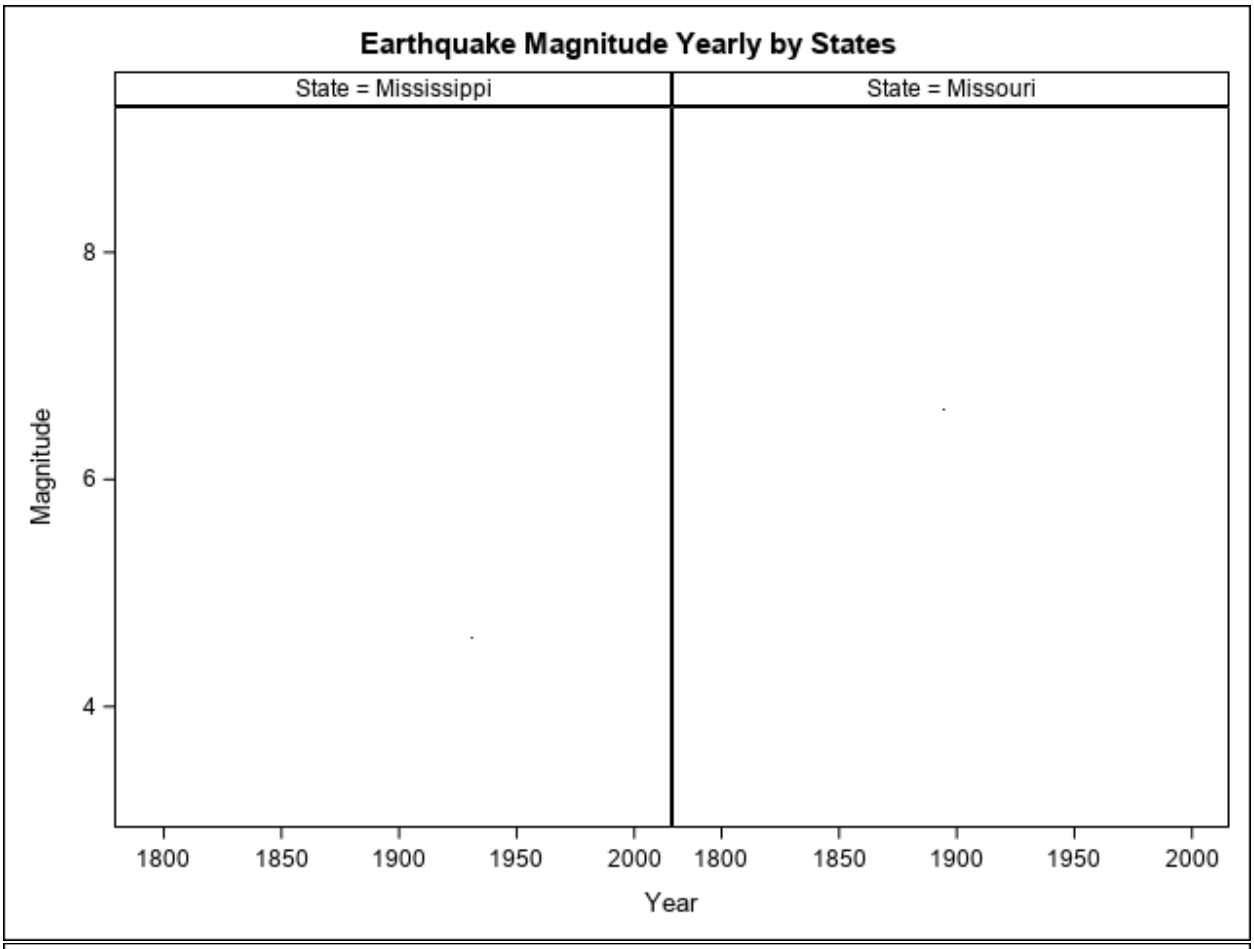


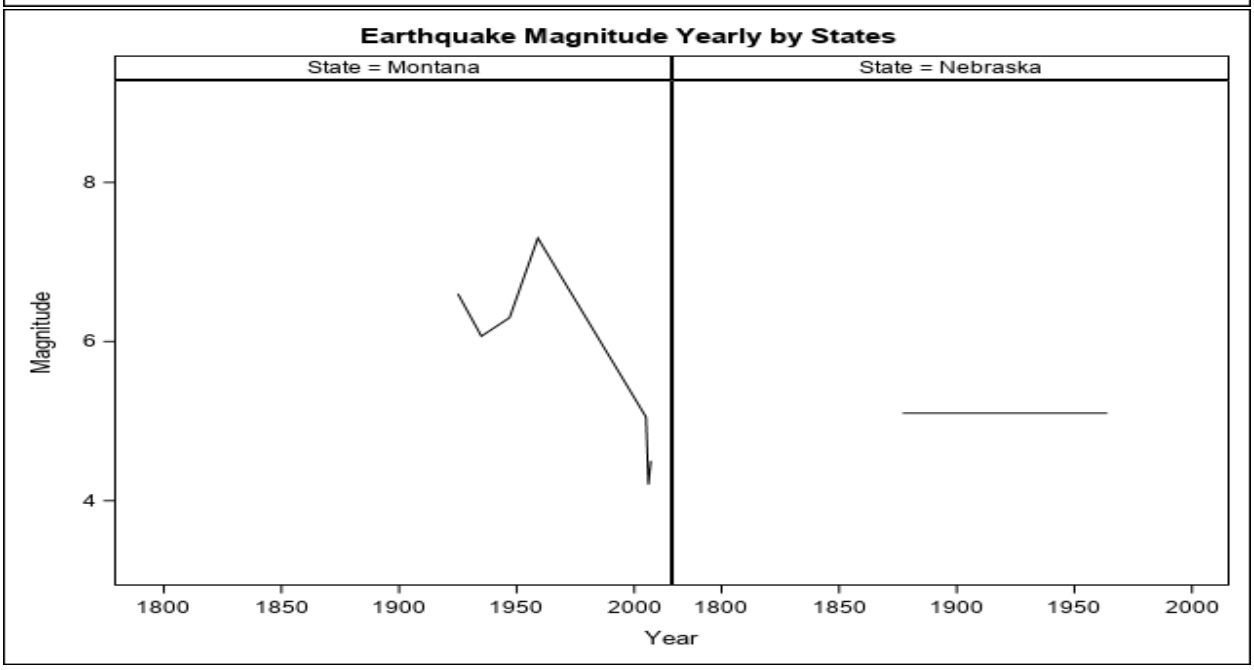
Chitresh Kumar **Homework 2**

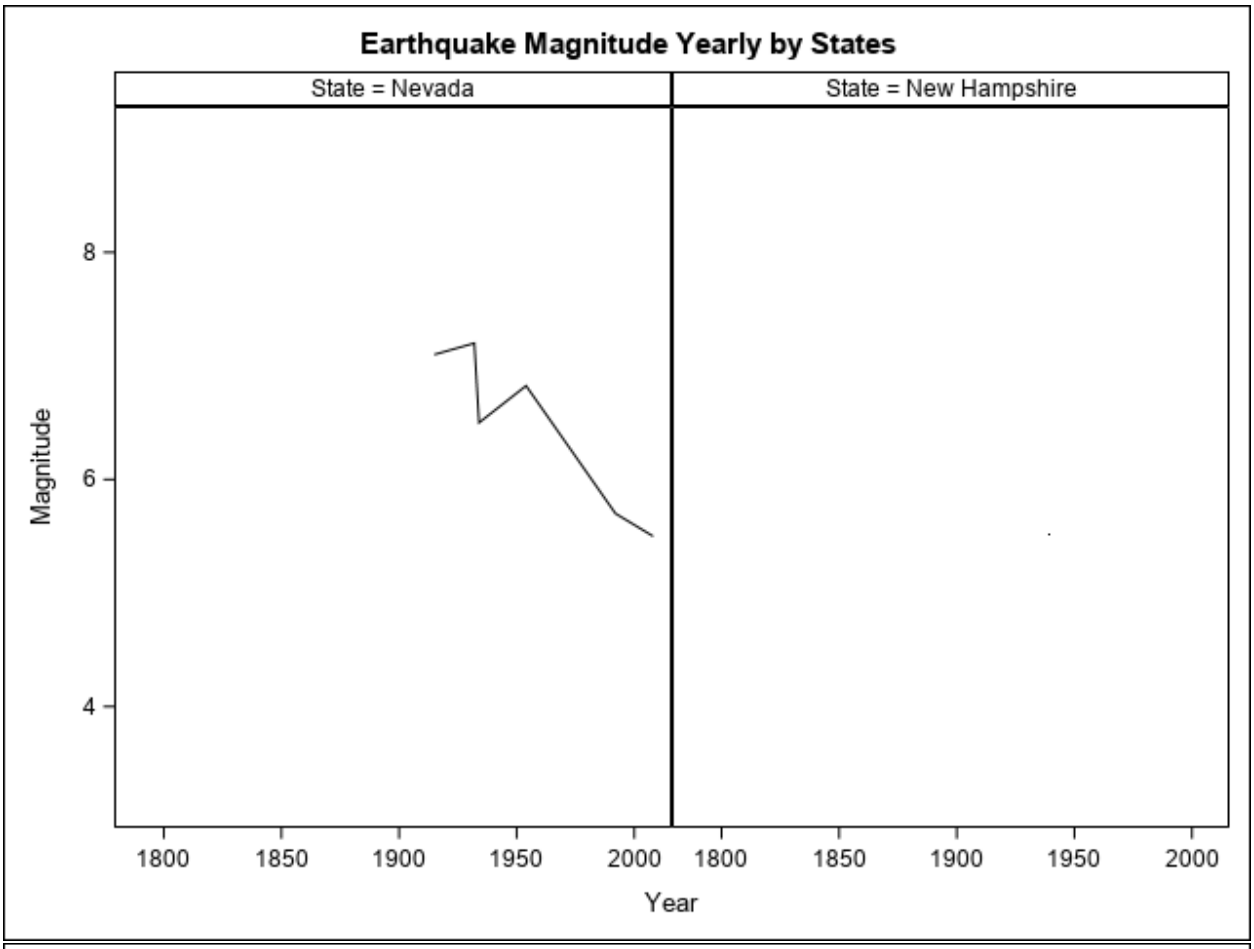


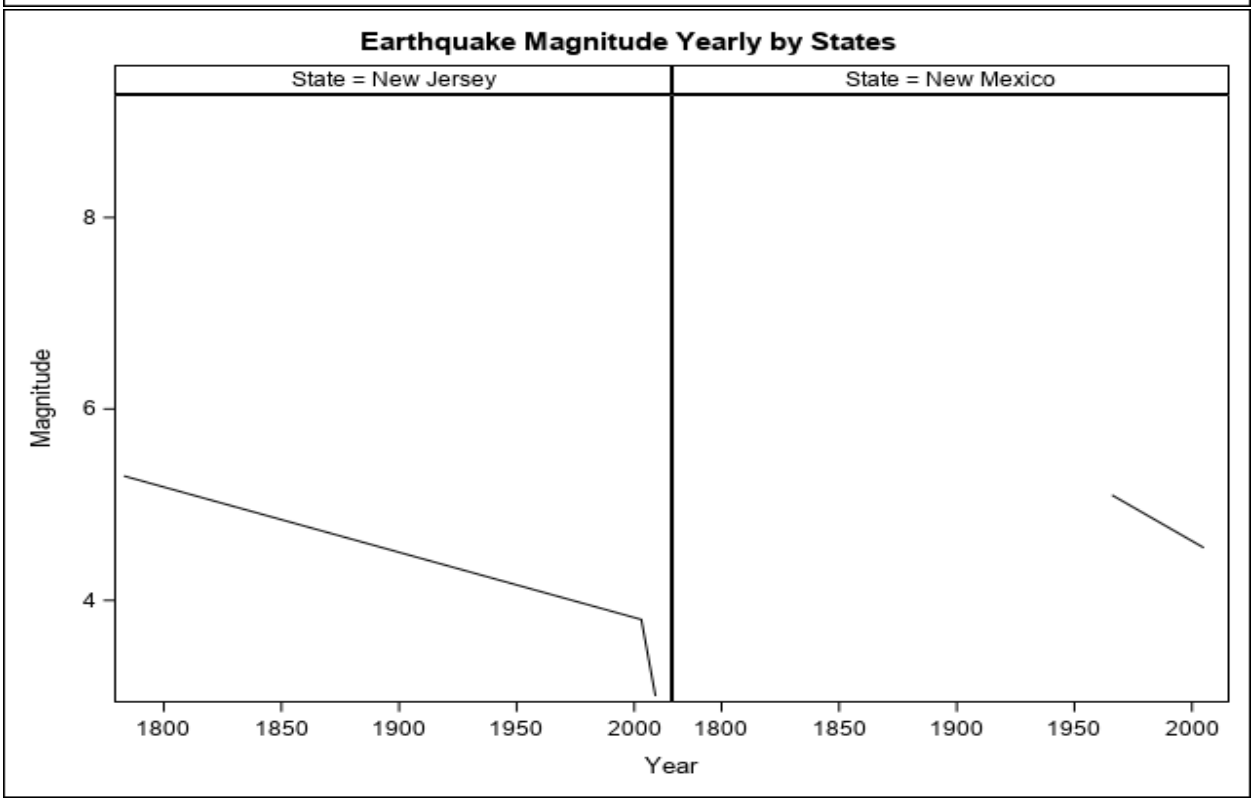


Chitresh Kumar **Homework 2**

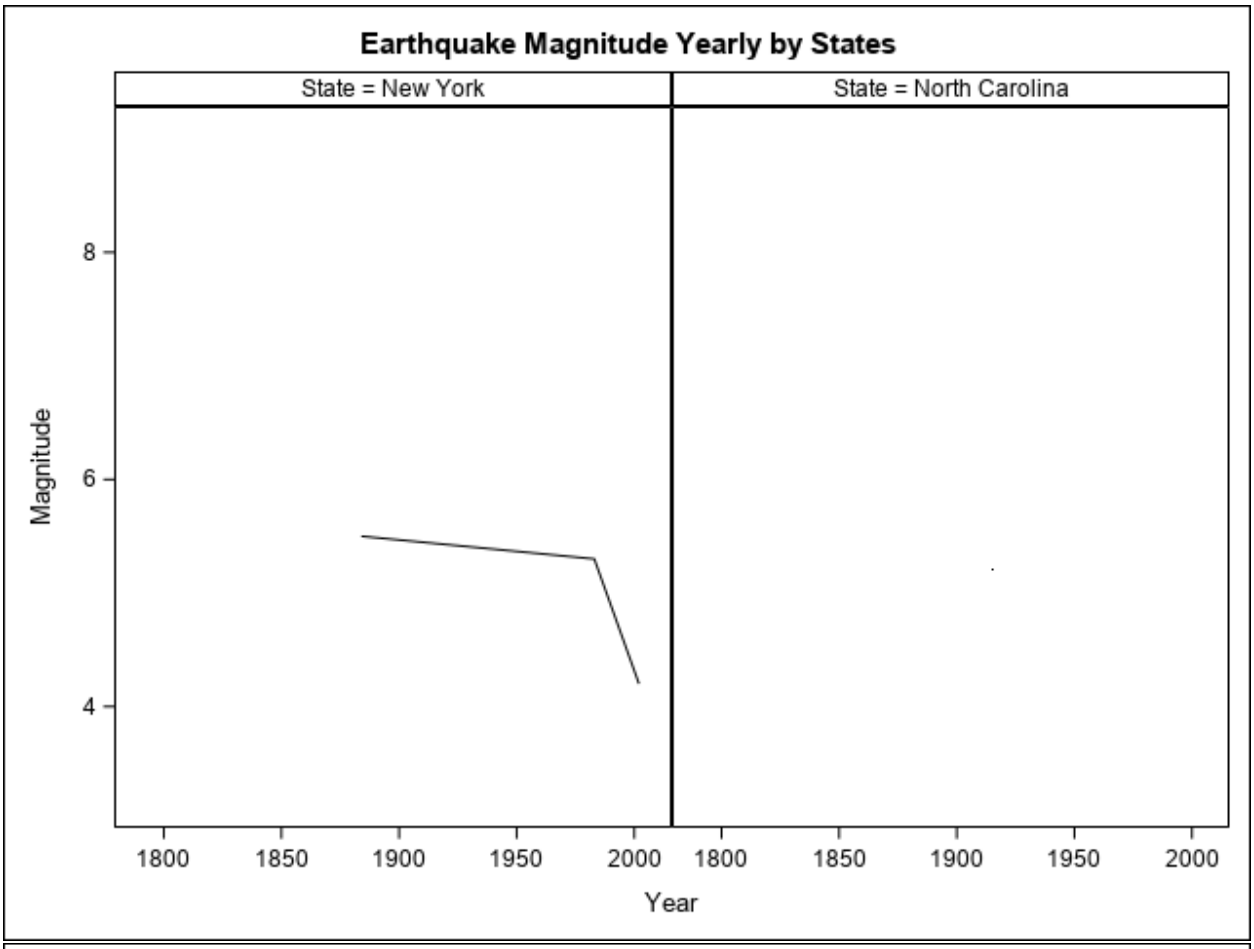


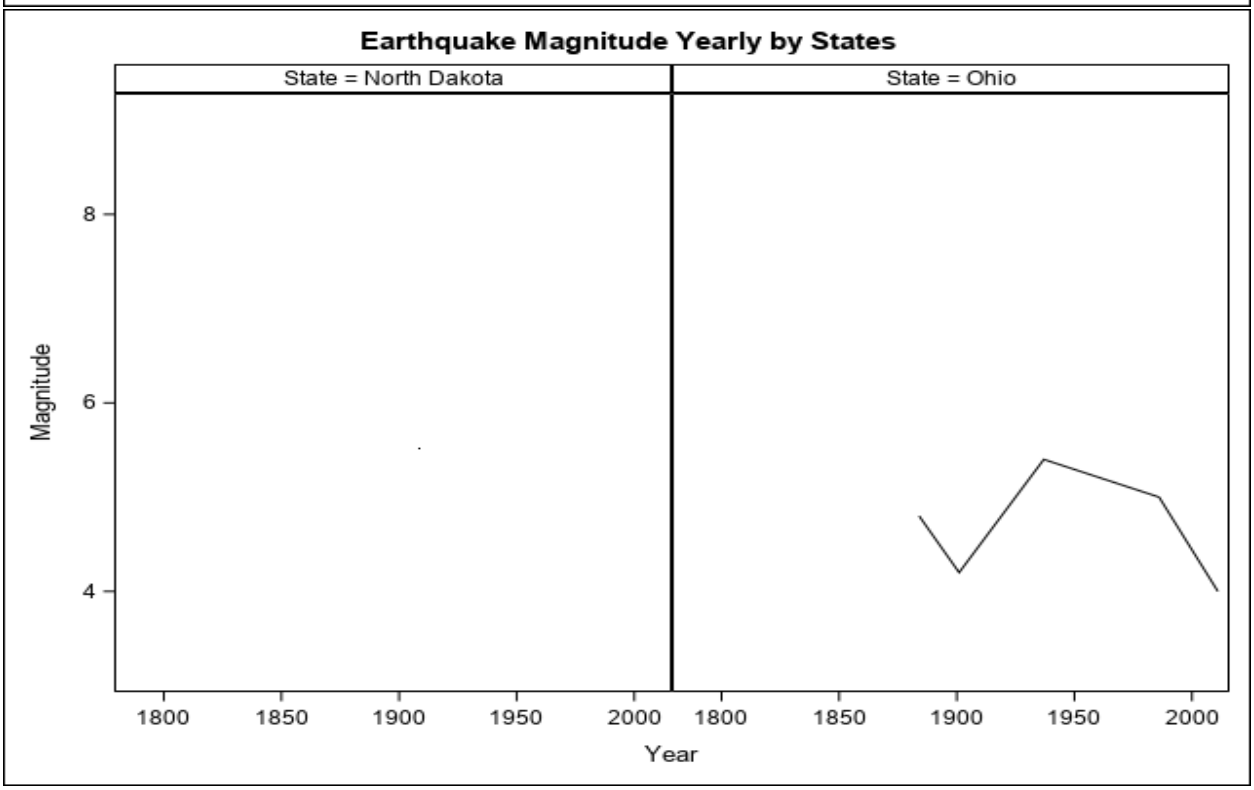



Earthquake Magnitude Yearly by States
State = Nevada
State = New Hampshire
Magnitude
8
6
4
1800
1850
1900
1950
2000
Year

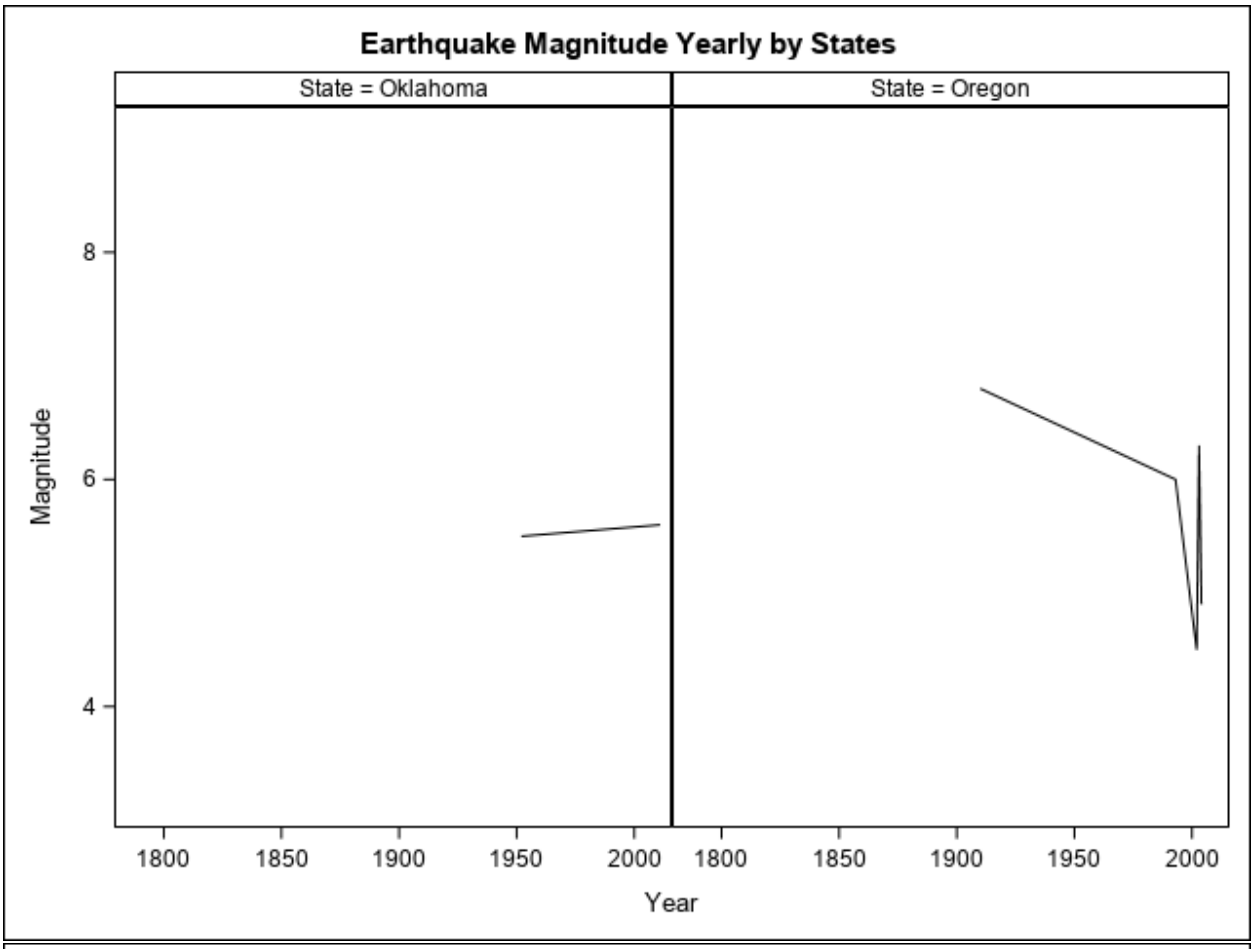

Earthquake Magnitude Yearly by States
State = New Jersey
State = New Mexico
Magnitude
8
6
4
1800
1850
1900
1950
2000
Year

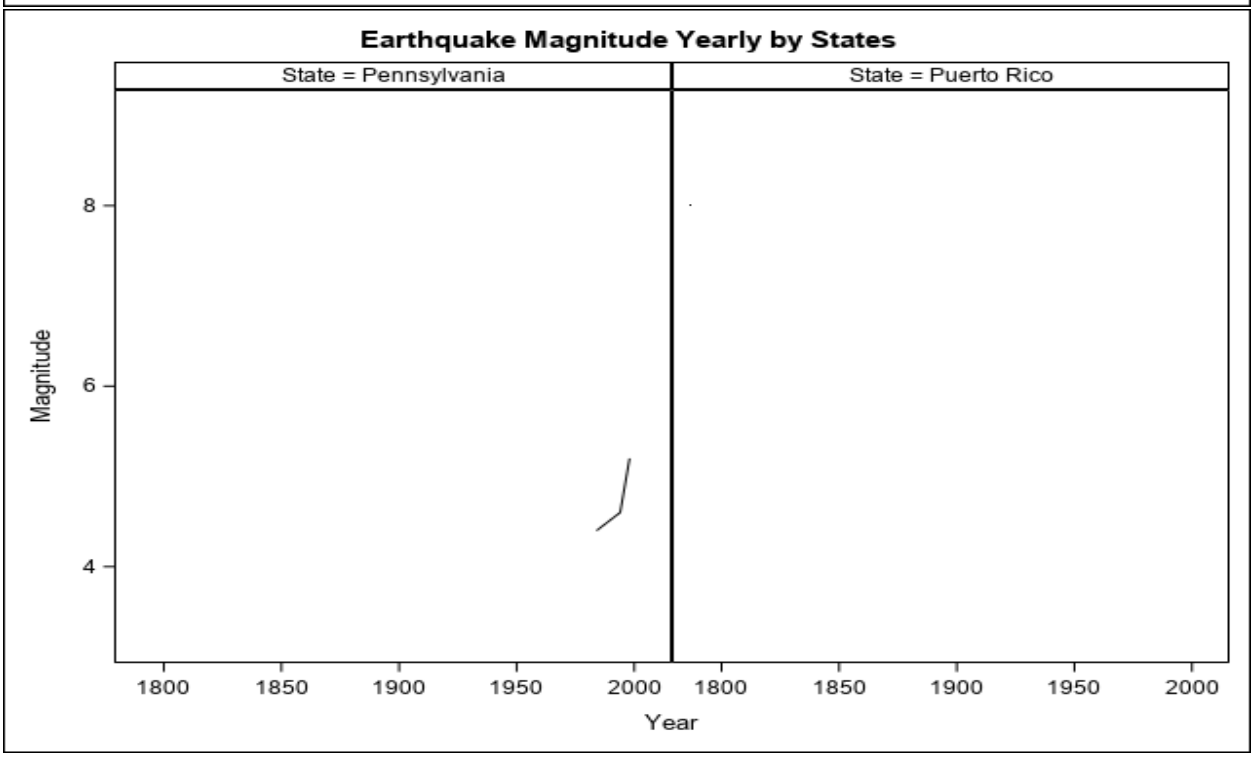
Chitresh Kumar **Homework 2**



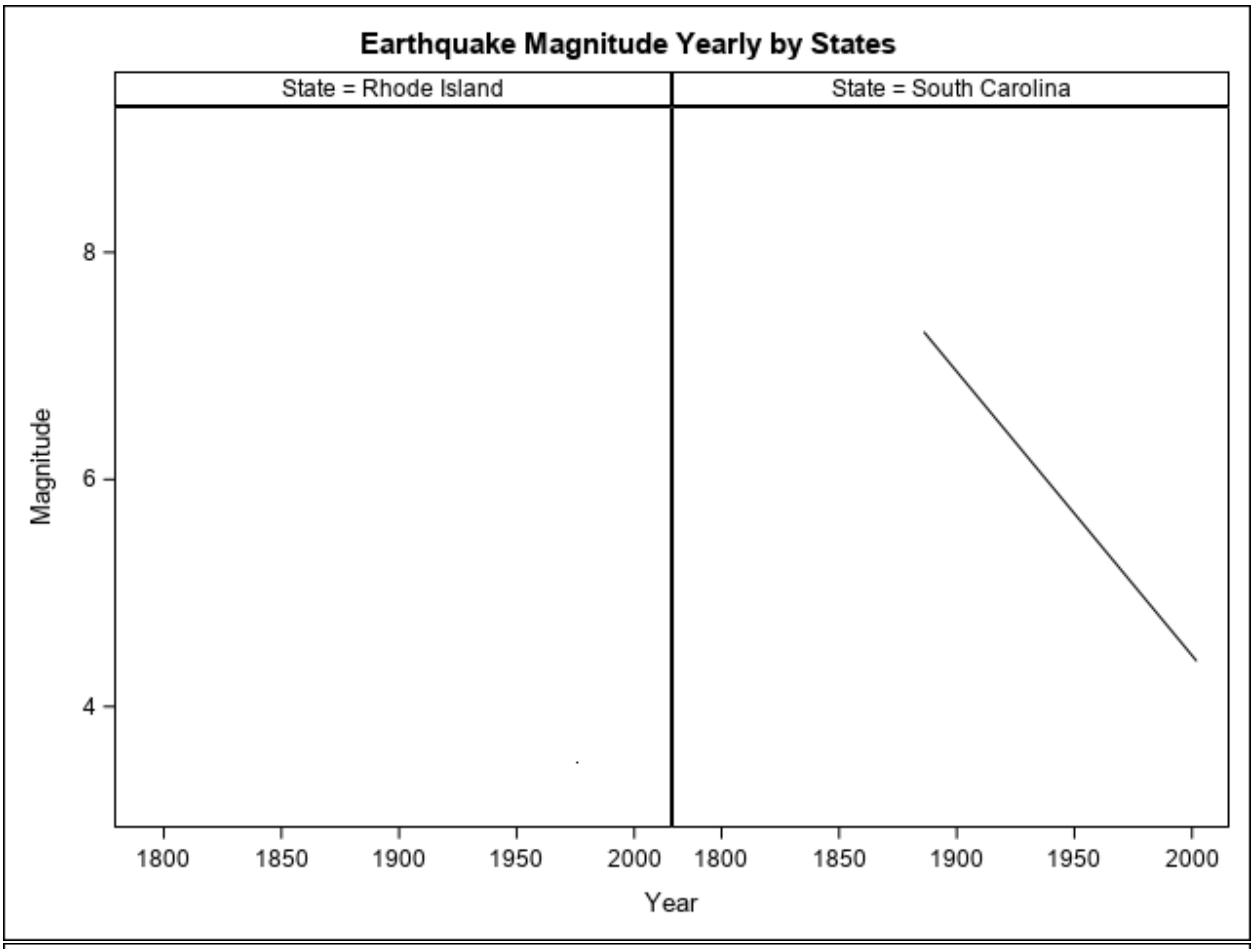


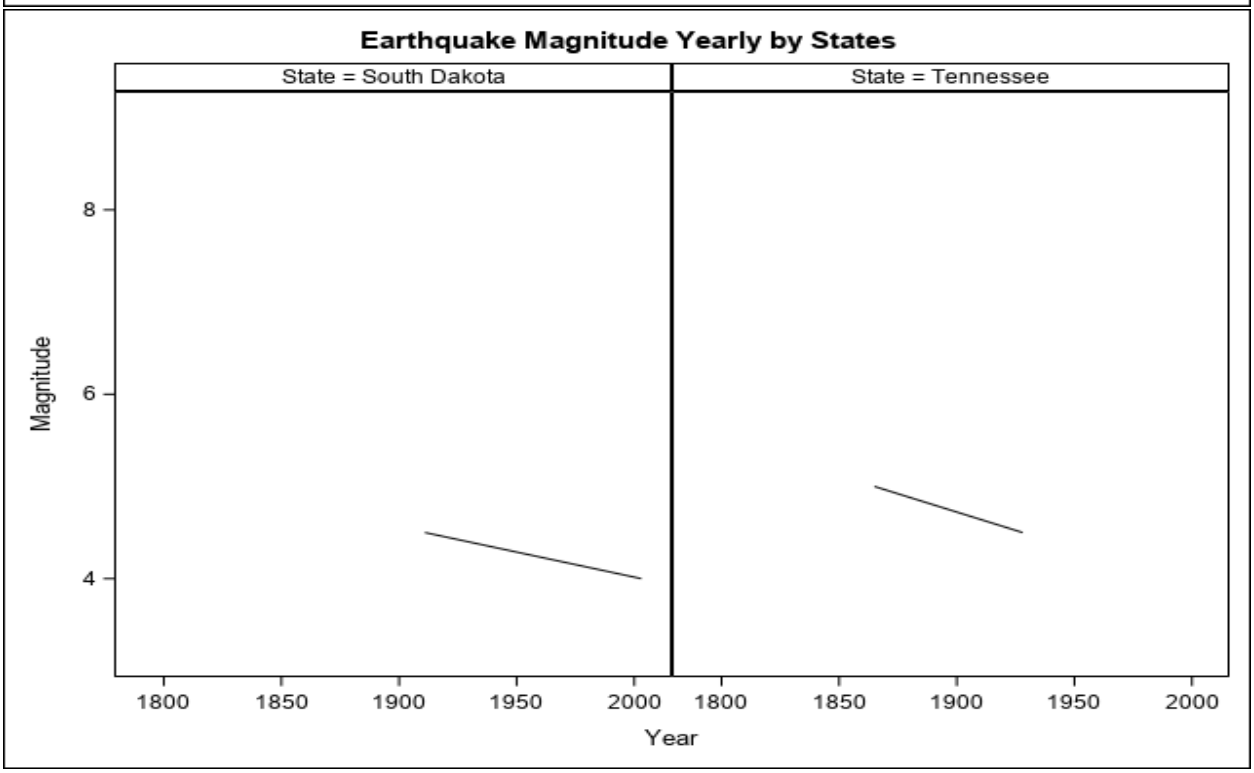
Chitresh Kumar **Homework 2**



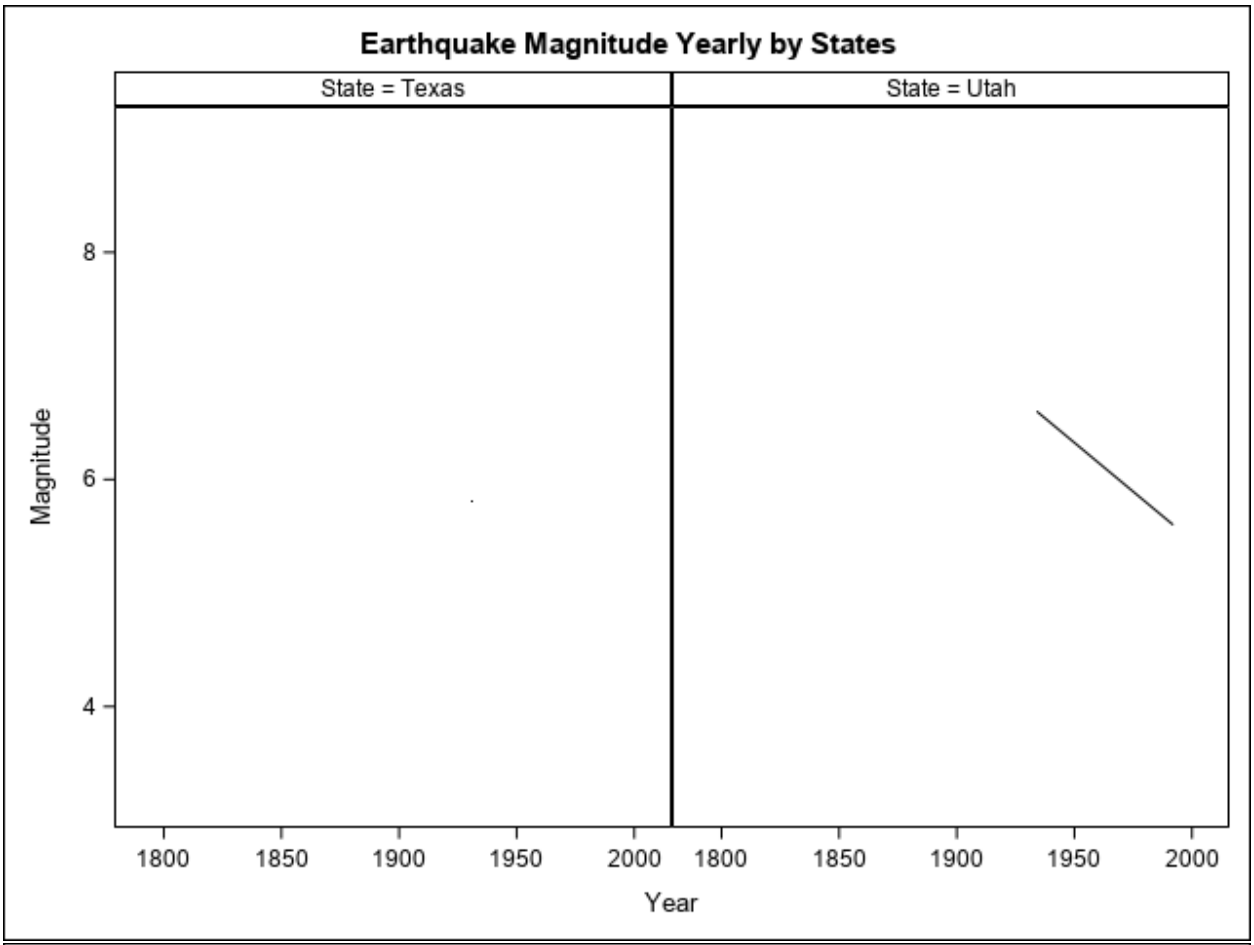


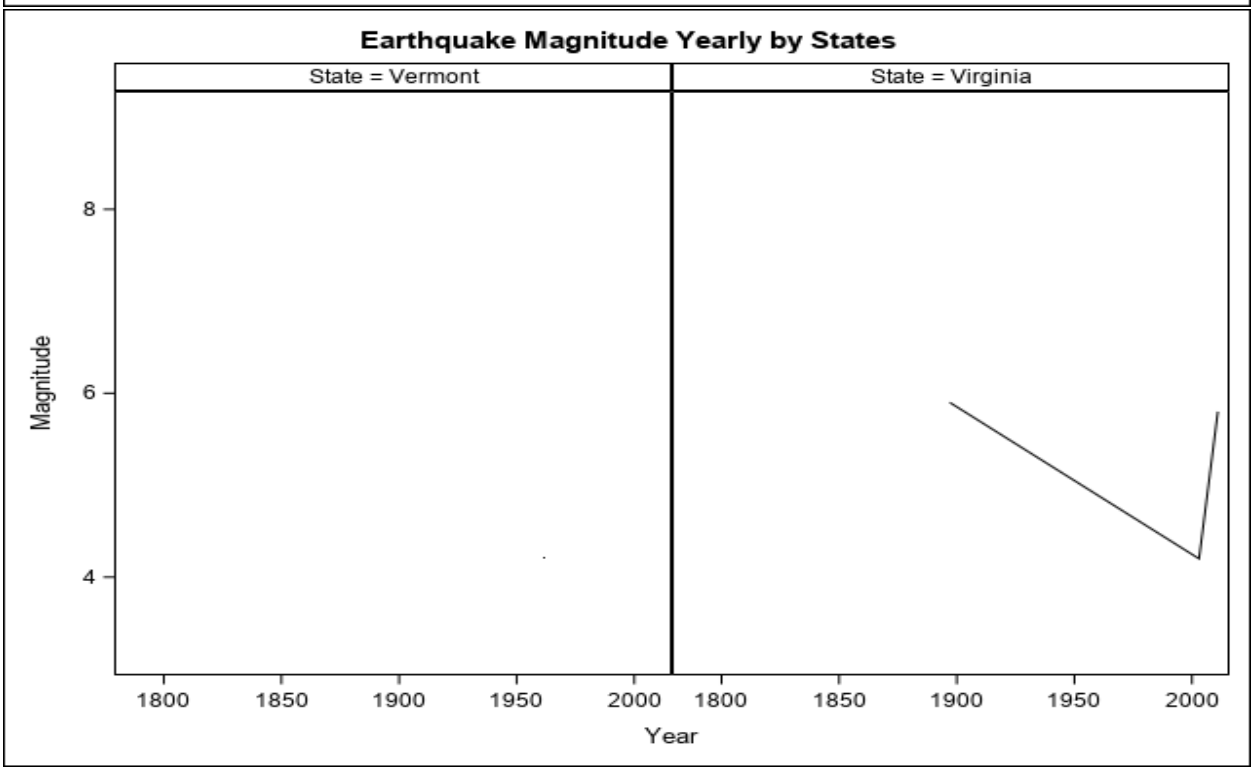
Chitresh Kumar **Homework 2**



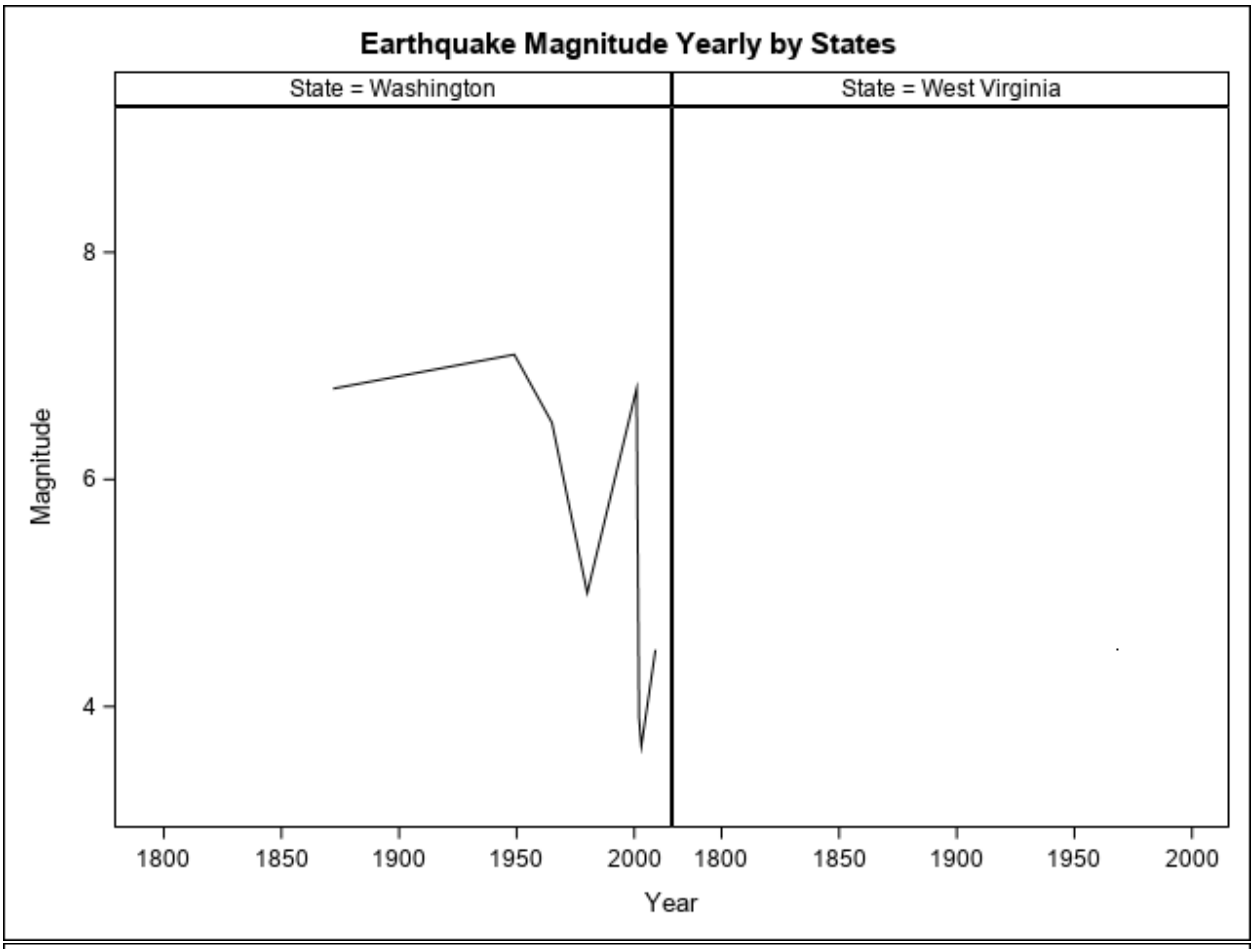


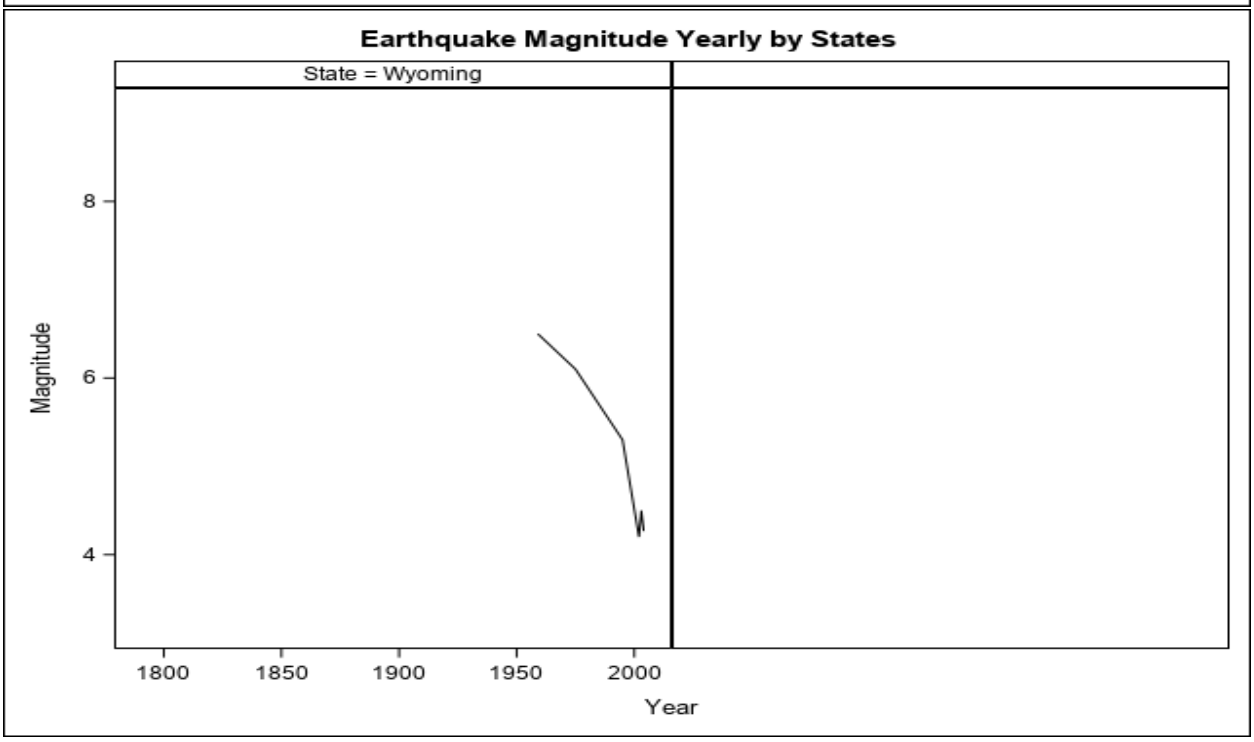
Chitresh Kumar **Homework 2**





Chitresh Kumar **Homework 2**





F)

State	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
Alaska		53	7.2453	0.7544	0.1036	4.8000	9.2000
California		116	5.7638	1.1931	0.1108	3.0000	7.9000
Diff (1-2)	**Pooled**		1.4815	1.0758	0.1784		
Diff (1-2)	**Satterthwaite**		1.4815		0.1517		

State	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
Alaska		7.2453	7.0374	7.4532	0.7544	0.6332	0.9334
California		5.7638	5.5444	5.9832	1.1931	1.0568	1.3700
Diff (1-2)	**Pooled**	1.4815	1.1293	1.8336	1.0758	0.9718	1.2050
Diff (1-2)	**Satterthwaite**	1.4815	1.1818	1.7812			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	167	8.31	<.0001
Satterthwaite	Unequal	150.12	9.77	<.0001

Equality of Variances				
Method	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Folded F	115	52	2.50	0.0003

H0 : The average magnitude of earthquakes in California is equal to that of Alaska

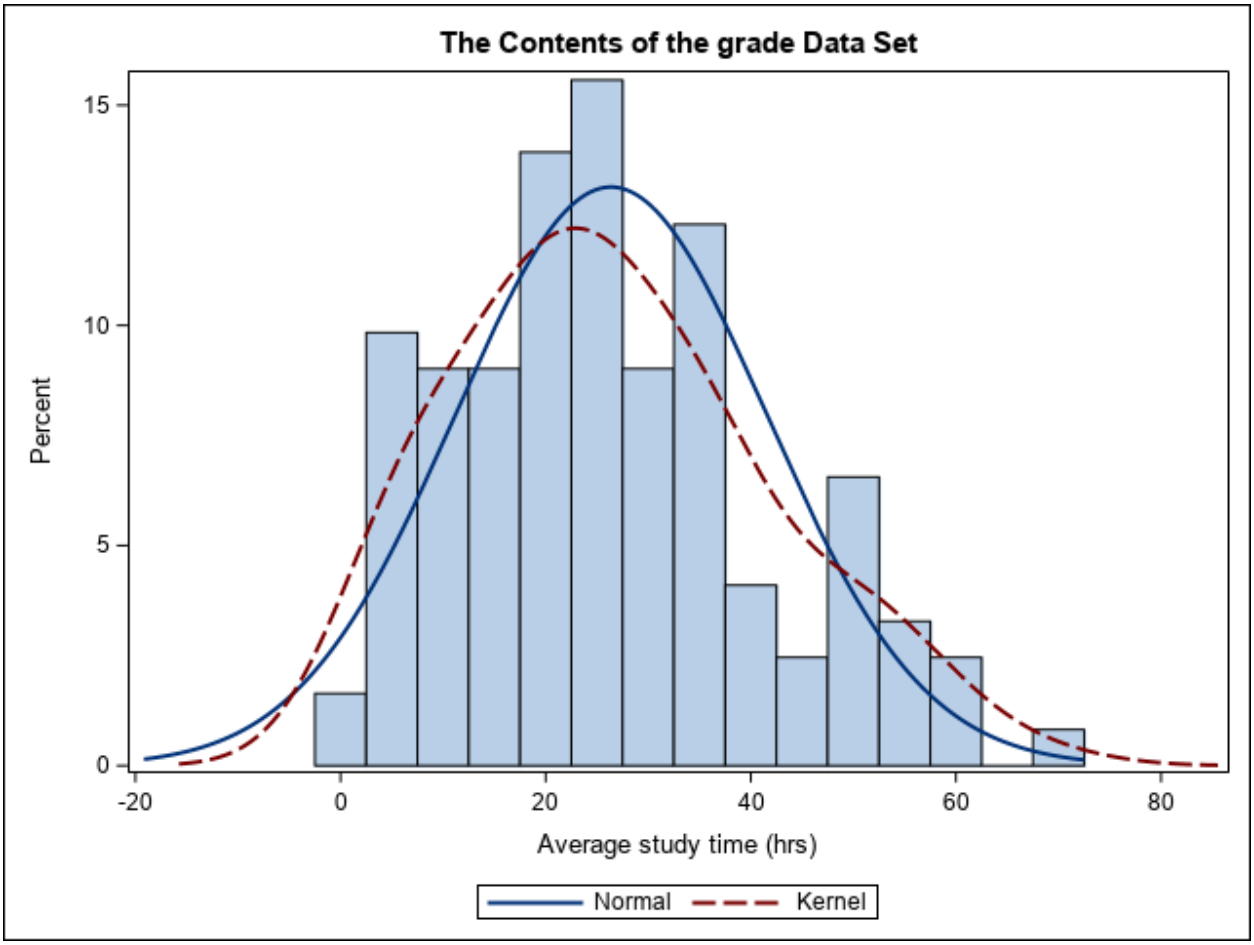
H1: Different

Mean of Alaska is 7.2453 while mean of California is 5.7638 . The standard deviation is not equal so we will use the test of unequal variances. The pvalues is 0.0001 which is less than 0.05. Therefore we reject the null . Statistically we can say that the average magnitude of earthquakes in California is not equal to that of Alaska.

Chitresh Kumar **Homework 2**

Question 2)

A)



The histogram plot shows that the average study time is not normally distributed. The graph is left skewed that means most student's study time is less than or equal to mean.

B)

3 Variables:	AveTime GPA Units

Simple Statistics							
Variable	**N**	**Mean**	**Std Dev**	**Sum**	**Minimum**	**Maximum**	**Label**
AveTime	58	29.68670	14.46548	1722	0.77286	69.00683	Average study time (hrs)
GPA	58	3.30138	0.39409	191.48000	2.42000	3.94000	GPA
Units	58	13.79310	3.15538	800.00000	9.00000	19.00000	Number of units enrolled

Pearson Correlation Coefficients, N = 58 Prob > |r| under H0: Rho=0			
	AveTime	**GPA**	**Units**
AveTime **Average study time (hrs)**	1.00000	-0.34324 0.0083	0.42598 0.0009
GPA **GPA**	-0.34324 0.0083	1.00000	-0.15327 0.2507
Units **Number of units enrolled**	0.42598 0.0009	-0.15327 0.2507	1.00000

3 Variables:	AveTime GPA Units

Simple Statistics							
Variable	**N**	**Mean**	**Std Dev**	**Sum**	**Minimum**	**Maximum**	**Label**
AveTime	64	23.35490	15.28746	1495	1.67731	56.33695	Average study time (hrs)
GPA	64	3.10125	0.44941	198.48000	1.93000	3.91000	GPA
Units	64	13.87500	3.07834	888.00000	9.00000	19.00000	Number of units enrolled

Pearson Correlation Coefficients, N = 64 Prob > |r| under H0: Rho=0			
	AveTime	**GPA**	**Units**
AveTime **Average study time (hrs)**	1.00000	0.10981 0.3877	0.34493 0.0053
GPA **GPA**	0.10981 0.3877	1.00000	-0.01170 0.9269
Units **Number of units enrolled**	0.34493 0.0053	-0.01170 0.9269	1.00000

Section 1

The correlation coefficient of Average Study time and GPA is -0.3432 . It is negatively correlated and the correlation is statistically significant(p-value = 0.0083).Therefore,the null hypothesis (H0: no correlation between two variables), is rejected.

The correlation coefficient of Average Study time and Units is 0.4259 . It is positively correlated and the correlation is statistically significant (p- value= 0.0009). Therefore,the null hypothesis (H0: no correlation between two variables), is rejected.

The correlation coefficient of GPA and Units is -0.15327. It is negatively correlated and the correlation is statistically insignificant (p- value= 0.2507). Therefore,the null hypothesis (H0: no correlation between two variables), is not rejected.

Section 2

The correlation coefficient of Average Study time and GPA is 0.10981 . It is positively correlated and the correlation is statistically insignificant (p-value = 0.38).Therefore,the null hypothesis (H0: no correlation between two variables), is not rejected.

The correlation coefficient of Average Study time and Units is 0.34493. It is positively correlated and the correlation is statistically significant (p- value= 0.0053). Therefore,the null hypothesis (H0: no correlation between two variables), is rejected.

The correlation coefficient of GPA and Units is -0.01170. It is negatively correlated and the correlation is statistically insignificant (p- value= 0.9269). Therefore, the null hypothesis (H0: no correlation between two variables), is not rejected.

Chitresh Kumar **Homework 2**

Question 3)

A)

VIEWTABLE: Clasdata.Vite

	ID	Visit	Strata	Treatment	Plaque	HDL	LDL	Trig	SBP	DBP	Alcohol	Smoke
1	1	0	1	0	0.8073	42	127	149	106	70	1	0
2	1	1	1	0	0.758	44	143	49	131	109	2	0
3	1	2	1	0	0.8098	40	158	98	136	87	2	0
4	2	0	1	0	0.7576	39	138	211	157	100	1	6
5	2	1	1	0	0.6866	46	147	29	154	108	2	6
6	2	2	1	0	0.8231	53	161	177	65	70	3	6
7	3	0	1	0	0.7522	53	133	163	169	106	1	0
8	3	1	1	0	0.7857	36	146	198	172	91	2	0
9	3	2	1	0	0.8031	39	119	140	140	90	3	0
10	4	0	1	0	0.8163	46	139	247	142	103	0	0
11	4	1	1	0	0.6004	46	139	47	131	93	0	0
12	4	2	1	0	0.9694	40	150	153	164	96	0	0
13	5	0	1	0	0.7977	47	152	182	163	101	0	3
14	5	1	1	0	0.9573	45	145	90	73	89	0	5
15	5	2	1	0	0.7973	41	142	133	150	59	0	0
16	6	0	1	0	0.818	46	147	326	145	101	0	0
17	6	1	1	0	0.8699	48	154	90	123	74	0	0
18	6	2	1	0	0.8396	48	138	250	135	88	0	0
19	7	0	1	0	0.8747	48	136	178	148	98	2	0
20	7	1	1	0	0.9285	46	150	213	141	108	3	0
21	7	2	1	0	0.7459	35	120	206	154	85	3	0
22	8	0	1	0	0.8679	55	142	105	136	87	0	0
23	8	1	1	0	0.7639	41	154	54	99	112	0	0
24	8	2	1	0	0.8181	46	159	163	185	83	0	0
25	9	0	1	0	0.8258	51	167	304	176	99	1	0
26	9	1	1	0	0.8427	48	135	313	146	91	1	0
27	9	2	1	0	0.7831	41	112	152	180	75	1	0
28	10	0	1	0	0.748	55	126	202	90	81	0	6
29	10	1	1	0	0.8058	48	139	276	146	126	0	7
30	10	2	1	0	0.9249	38	141	47	68	95	0	7
31	11	0	1	0	0.8798	53	137	169	105	84	0	10
32	11	1	1	0	0.8043	45	128	81	97	84	0	10
33	11	2	1	0	0.7729	48	150	205	119	79	0	10
34	12	0	1	0	0.782	46	138	326	143	60	0	0

B)

Data Set Name	WORK.VITA	**Observations**	1500
Member Type	DATA	**Variables**	12
Engine	V9	**Indexes**	0
Created	09/15/2020 11:50:13	**Observation Length**	96
Last Modified	09/15/2020 11:50:13	**Deleted Observations**	0
Protection		**Compressed**	NO
Data Set Type		**Sorted**	NO
Label			
Data Representation	WINDOWS_64		
Encoding	wlatin1 Western (Windows)		

Engine/Host Dependent Information	
Data Set Page Size	65536
Number of Data Set Pages	3
First Data Page	1
Max Obs per Page	681
Obs in First Data Page	655
Number of Data Set Repairs	0
ExtendObsCounter	YES
Filename	E:\SAS Temporary Files\cxk190003_TD71128_SMVSASCLASSC_\vita.sas7bdat
Release Created	9.0401M6
Host Created	X64_SRV19
Owner Name	CAMPUS\cxk190003
File Size	256KB
File Size (bytes)	262144

Alphabetic List of Variables and Attributes				
#	**Variable**	**Type**	**Len**	**Label**
11	Alcohol	Num	8	Number of alcoholic drinks per day
10	DBP	Num	8	Diastolic blood pressure (mm/Mg)
6	HDL	Num	8	HDL cholesterol (mg/DL)
1	ID	Num	8	Subject ID
7	LDL	Num	8	LDL cholesterol (mg/DL)
5	Plaque	Num	8	Plaque measurement (mm)
9	SBP	Num	8	Systolic blood pressure (mm/Mg)
12	Smoke	Num	8	Number of cigarettes smoked per day
3	Strata	Num	8	Strata 1=baseline plaque 0.60mm+ and 2=baseline plaque below 0.60mm
4	Treatment	Num	8	0=placebo and 1=vitamin E
8	Trig	Num	8	triglycerides mg/dL
2	Visit	Num	8	0=baseline, 1=first year, and 2=second year

Chitresh Kumar **Homework 2**

Long to Wide format

Obs	ID	Treatment	_NAME_	_LABEL_	plaque0	plaque1	plaque2
1	1	0	Plaque	Plaque measurement (mm)	0.8073	0.7580	0.8098
2	2	0	Plaque	Plaque measurement (mm)	0.7576	0.6866	0.8231
3	3	0	Plaque	Plaque measurement (mm)	0.7522	0.7857	0.8031
4	4	0	Plaque	Plaque measurement (mm)	0.8163	0.6004	0.9694
5	5	0	Plaque	Plaque measurement (mm)	0.7977	0.9573	0.7973
6	6	0	Plaque	Plaque measurement (mm)	0.8180	0.8699	0.8396
7	7	0	Plaque	Plaque measurement (mm)	0.8747	0.9285	0.7459
8	8	0	Plaque	Plaque measurement (mm)	0.8679	0.7639	0.8181
9	9	0	Plaque	Plaque measurement (mm)	0.8258	0.8427	0.7831
10	10	0	Plaque	Plaque measurement (mm)	0.7480	0.8058	0.9249
11	11	0	Plaque	Plaque measurement (mm)	0.8798	0.8043	0.7729
12	12	0	Plaque	Plaque measurement (mm)	0.7820	0.7425	0.7648
13	13	0	Plaque	Plaque measurement (mm)	0.8861	0.6375	0.7867
14	14	0	Plaque	Plaque measurement (mm)	0.7743	0.7877	0.9378
15	15	0	Plaque	Plaque measurement (mm)	0.8831	0.7128	0.9132
16	16	0	Plaque	Plaque measurement (mm)	0.8635	0.8794	0.7312
17	17	0	Plaque	Plaque measurement (mm)	0.8619	0.7524	0.8108
18	18	0	Plaque	Plaque measurement (mm)	0.7084	0.6270	0.7100
19	19	0	Plaque	Plaque measurement (mm)	0.9107	0.7476	0.8777
20	20	0	Plaque	Plaque measurement (mm)	0.8402	0.6602	0.7794

C) Without placebo group

N	Mean	Std Dev	Std Err	Minimum	Maximum
250	0.0298	0.1182	0.00748	-0.2590	0.3351

Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0.0298	0.0150	0.0445	0.1182	0.1087	0.1296

DF	t Value	Pr > |t|
249	3.98	<.0001

H0 : There is no difference in plaque level before treatment and after the second visit

The mean of the plaque is 0.0298 without placebo treatment group. The p-value is 0.001(<0.05). Therefore we can say that the mean is statistically different.

D) With placebo group

N	Mean	Std Dev	Std Err	Minimum	Maximum
125	0.0182	0.1015	0.00908	-0.2709	0.2577

Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0.0182	0.000234	0.0362	0.1015	0.0903	0.1159

DF	t Value	Pr > |t|
124	2.01	0.0471

H0 : There is no difference in plaque level before treatment and after the second visit

The mean of the plaque is 0.0182 with placebo treatment group. The p-value is 0.0471(<0.05). Therefore, we can say that the mean is statistically different.

E) The mean without placebo group is more statistically significant as compared to the mean with placebo group. The p-value of the mean (without placebo) is 0.001 (<0.01) which is even valid for 99% confidence interval.

f)

Smoke

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		491	0.6245	0.1770	0.00799	0.2490	0.9897
1		567	0.6397	0.1631	0.00685	0.2624	1.0808
Diff (1-2)	**Pooled**		-0.0152	0.1697	0.0105		
Diff (1-2)	**Satterthwaite**		-0.0152		0.0105		

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.6245	0.6088	0.6402	0.1770	0.1666	0.1889
1		0.6397	0.6263	0.6532	0.1631	0.1541	0.1732
Diff (1-2)	**Pooled**	-0.0152	-0.0358	0.00530	0.1697	0.1628	0.1773
Diff (1-2)	**Satterthwaite**	-0.0152	-0.0359	0.00542			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	1056	-1.46	0.1458
Satterthwaite	Unequal	1005	-1.45	0.1482

Equality of Variances				
Method	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Folded F	490	566	1.18	0.0599

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		8	0.5332	0.1378	0.0487	0.3527	0.7977
1		13	0.4905	0.1126	0.0312	0.3382	0.7643
Diff (1-2)	**Pooled**		0.0428	0.1225	0.0550		
Diff (1-2)	**Satterthwaite**		0.0428		0.0579		

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.5332	0.4181	0.6484	0.1378	0.0911	0.2804
1		0.4905	0.4224	0.5585	0.1126	0.0807	0.1858
Diff (1-2)	Pooled	0.0428	-0.0724	0.1579	0.1225	0.0931	0.1789
Diff (1-2)	Satterthwaite	0.0428	-0.0825	0.1681			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	19	0.78	0.4465
Satterthwaite	Unequal	12.684	0.74	0.4731

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	7	12	1.50	0.5137

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		14	0.7333	0.1807	0.0483	0.4214	0.9312
1		8	0.4715	0.0929	0.0329	0.3212	0.5670
Diff (1-2)	Pooled		0.2617	0.1557	0.0690		
Diff (1-2)	Satterthwaite		0.2617		0.0584		

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.7333	0.6289	0.8376	0.1807	0.1310	0.2912
1		0.4715	0.3939	0.5492	0.0929	0.0614	0.1891
Diff (1-2)	Pooled	0.2617	0.1178	0.4057	0.1557	0.1191	0.2249
Diff (1-2)	Satterthwaite	0.2617	0.1398	0.3836			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	20	3.79	0.0011
Satterthwaite	Unequal	19.901	4.48	0.0002

Equality of Variances				
Method	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Folded F	13	7	3.78	0.0851

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		13	0.6669	0.1649	0.0457	0.4639	0.9573
1		12	0.5508	0.1932	0.0558	0.2209	0.8725
Diff (1-2)	**Pooled**		0.1162	0.1790	0.0717		
Diff (1-2)	**Satterthwaite**		0.1162		0.0721		

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.6669	0.5673	0.7666	0.1649	0.1182	0.2722
1		0.5508	0.4280	0.6735	0.1932	0.1369	0.3281
Diff (1-2)	**Pooled**	0.1162	-0.0321	0.2644	0.1790	0.1391	0.2511
Diff (1-2)	**Satterthwaite**	0.1162	-0.0335	0.2659			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	23	1.62	0.1186
Satterthwaite	Unequal	21.749	1.61	0.1216

Equality of Variances				
Method	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Folded F	11	12	1.37	0.5928

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		25	0.6076	0.1618	0.0324	0.3755	0.8809
1		14	0.5513	0.1668	0.0446	0.2835	0.8729
Diff (1-2)	**Pooled**		0.0562	0.1635	0.0546		
Diff (1-2)	**Satterthwaite**		0.0562		0.0551		

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.6076	0.5408	0.6743	0.1618	0.1263	0.2250
1		0.5513	0.4550	0.6476	0.1668	0.1209	0.2687
Diff (1-2)	Pooled	0.0562	-0.0544	0.1668	0.1635	0.1333	0.2116
Diff (1-2)	Satterthwaite	0.0562	-0.0569	0.1694			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	37	1.03	0.3097
Satterthwaite	Unequal	26.34	1.02	0.3166

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	13	24	1.06	0.8623

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		12	0.7407	0.1912	0.0552	0.3934	0.9326
1		6	0.5919	0.1054	0.0430	0.4620	0.7332
Diff (1-2)	Pooled		0.1488	0.1692	0.0846		
Diff (1-2)	Satterthwaite		0.1488		0.0700		

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.7407	0.6192	0.8622	0.1912	0.1355	0.3247
1		0.5919	0.4813	0.7026	0.1054	0.0658	0.2586
Diff (1-2)	Pooled	0.1488	-0.0305	0.3281	0.1692	0.1260	0.2575
Diff (1-2)	Satterthwaite	0.1488	0.000164	0.2974			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	16	1.76	0.0976
Satterthwaite	Unequal	15.686	2.13	0.0498

Equality of Variances				
Method	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Folded F	11	5	3.29	0.1990

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		8	0.7030	0.1623	0.0574	0.4989	0.8978
1		15	0.7126	0.2259	0.0583	0.3039	1.0405
Diff (1-2)	**Pooled**		-0.00962	0.2069	0.0906		
Diff (1-2)	**Satterthwaite**		-0.00962		0.0818		

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.7030	0.5673	0.8387	0.1623	0.1073	0.3303
1		0.7126	0.5875	0.8377	0.2259	0.1654	0.3563
Diff (1-2)	**Pooled**	-0.00962	-0.1980	0.1788	0.2069	0.1592	0.2957
Diff (1-2)	**Satterthwaite**	-0.00962	-0.1810	0.1617			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	21	-0.11	0.9164
Satterthwaite	Unequal	18.87	-0.12	0.9077

Equality of Variances				
Method	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Folded F	14	7	1.94	0.3837

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		4	0.6331	0.1295	0.0647	0.4941	0.7805
1		4	0.5862	0.0990	0.0495	0.4799	0.7148
Diff (1-2)	**Pooled**		0.0469	0.1153	0.0815		
Diff (1-2)	**Satterthwaite**		0.0469		0.0815		

Chitresh Kumar **Homework 2**

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.6331	0.4271	0.8391	0.1295	0.0734	0.4828
1		0.5862	0.4286	0.7437	0.0990	0.0561	0.3692
Diff (1-2)	Pooled	0.0469	-0.1525	0.2464	0.1153	0.0743	0.2538
Diff (1-2)	Satterthwaite	0.0469	-0.1559	0.2497			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	6	0.58	0.5857
Satterthwaite	Unequal	5.6143	0.58	0.5871

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	3	3	1.71	0.6701

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		36	0.7365	0.1698	0.0283	0.2992	0.9811
1		27	0.6404	0.1612	0.0310	0.3234	0.9517
Diff (1-2)	Pooled		0.0961	0.1662	0.0423		
Diff (1-2)	Satterthwaite		0.0961		0.0420		

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.7365	0.6790	0.7939	0.1698	0.1377	0.2215
1		0.6404	0.5766	0.7042	0.1612	0.1270	0.2210
Diff (1-2)	Pooled	0.0961	0.0114	0.1807	0.1662	0.1412	0.2020
Diff (1-2)	Satterthwaite	0.0961	0.0120	0.1801			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	61	2.27	0.0267
Satterthwaite	Unequal	57.627	2.29	0.0259

Equality of Variances				
Method	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Folded F	35	26	1.11	0.7934

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		13	0.6653	0.1913	0.0531	0.3534	0.9594
1		15	0.5582	0.1611	0.0416	0.3593	0.8856
Diff (1-2)	**Pooled**		0.1071	0.1757	0.0666		
Diff (1-2)	**Satterthwaite**		0.1071		0.0674		

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.6653	0.5497	0.7809	0.1913	0.1372	0.3158
1		0.5582	0.4690	0.6474	0.1611	0.1180	0.2541
Diff (1-2)	**Pooled**	0.1071	-0.0297	0.2440	0.1757	0.1384	0.2408
Diff (1-2)	**Satterthwaite**	0.1071	-0.0322	0.2464			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	26	1.61	0.1197
Satterthwaite	Unequal	23.633	1.59	0.1254

Equality of Variances				
Method	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Folded F	12	14	1.41	0.5344

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		18	0.6705	0.2011	0.0474	0.4174	0.9725
1		11	0.6026	0.1418	0.0427	0.4425	0.8667
Diff (1-2)	**Pooled**		0.0679	0.1814	0.0694		
Diff (1-2)	**Satterthwaite**		0.0679		0.0638		

Chitresh Kumar **Homework 2**

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.6705	0.5705	0.7705	0.2011	0.1509	0.3014
1		0.6026	0.5073	0.6978	0.1418	0.0991	0.2488
Diff (1-2)	Pooled	0.0679	-0.0745	0.2103	0.1814	0.1434	0.2469
Diff (1-2)	Satterthwaite	0.0679	-0.0632	0.1990			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	27	0.98	0.3367
Satterthwaite	Unequal	26.31	1.06	0.2971

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	17	10	2.01	0.2617

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		5	0.6146	0.2292	0.1025	0.4254	0.9512
1		3	0.4987	0.2383	0.1376	0.2902	0.7585
Diff (1-2)	Pooled		0.1159	0.2323	0.1696		
Diff (1-2)	Satterthwaite		0.1159		0.1716		

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.6146	0.3301	0.8992	0.2292	0.1373	0.6586
1		0.4987	-0.0933	1.0907	0.2383	0.1241	1.4978
Diff (1-2)	Pooled	0.1159	-0.2992	0.5310	0.2323	0.1497	0.5115
Diff (1-2)	Satterthwaite	0.1159	-0.3520	0.5839			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	6	0.68	0.5199
Satterthwaite	Unequal	4.1904	0.68	0.5348

Equality of Variances				
Method	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Folded F	2	4	1.08	0.8427

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		4	0.5291	0.2094	0.1047	0.3628	0.8203
1		4	0.5864	0.1970	0.0985	0.3751	0.7585
Diff (1-2)	**Pooled**		-0.0574	0.2033	0.1438		
Diff (1-2)	**Satterthwaite**		-0.0574		0.1438		

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.5291	0.1959	0.8622	0.2094	0.1186	0.7808
1		0.5864	0.2729	0.8999	0.1970	0.1116	0.7346
Diff (1-2)	**Pooled**	-0.0574	-0.4091	0.2944	0.2033	0.1310	0.4477
Diff (1-2)	**Satterthwaite**	-0.0574	-0.4094	0.2947			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	6	-0.40	0.7037
Satterthwaite	Unequal	5.9779	-0.40	0.7038

Equality of Variances				
Method	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Folded F	3	3	1.13	0.9226

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		6	0.6779	0.1736	0.0709	0.5021	0.9479
1		12	0.6438	0.1876	0.0542	0.3590	0.9648
Diff (1-2)	**Pooled**		0.0341	0.1834	0.0917		
Diff (1-2)	**Satterthwaite**		0.0341		0.0892		

Chitresh Kumar **Homework 2**

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.6779	0.4957	0.8601	0.1736	0.1084	0.4258
1		0.6438	0.5246	0.7630	0.1876	0.1329	0.3186
Diff (1-2)	Pooled	0.0341	-0.1603	0.2284	0.1834	0.1366	0.2791
Diff (1-2)	Satterthwaite	0.0341	-0.1626	0.2307			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	16	0.37	0.7150
Satterthwaite	Unequal	10.862	0.38	0.7099

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	11	5	1.17	0.9218

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		11	0.6016	0.1582	0.0477	0.3786	0.8680
1		5	0.6053	0.1332	0.0596	0.4319	0.7649
Diff (1-2)	Pooled		-0.00377	0.1515	0.0817		
Diff (1-2)	Satterthwaite		-0.00377		0.0763		

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.6016	0.4953	0.7078	0.1582	0.1105	0.2776
1		0.6053	0.4399	0.7708	0.1332	0.0798	0.3829
Diff (1-2)	Pooled	-0.00377	-0.1790	0.1715	0.1515	0.1109	0.2389
Diff (1-2)	Satterthwaite	-0.00377	-0.1757	0.1682			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	14	-0.05	0.9639
Satterthwaite	Unequal	9.2487	-0.05	0.9617

Equality of Variances				
Method	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Folded F	10	4	1.41	0.7926

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		9	0.5079	0.1458	0.0486	0.3838	0.8047
1		11	0.5984	0.2303	0.0694	0.2872	0.9904
Diff (1-2)	**Pooled**		-0.0904	0.1973	0.0887		
Diff (1-2)	**Satterthwaite**		-0.0904		0.0848		

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.5079	0.3959	0.6200	0.1458	0.0985	0.2794
1		0.5984	0.4437	0.7531	0.2303	0.1609	0.4041
Diff (1-2)	**Pooled**	-0.0904	-0.2767	0.0958	0.1973	0.1490	0.2917
Diff (1-2)	**Satterthwaite**	-0.0904	-0.2692	0.0883			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	18	-1.02	0.3213
Satterthwaite	Unequal	17.077	-1.07	0.3009

Equality of Variances				
Method	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Folded F	10	8	2.49	0.2084

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		10	0.6101	0.1822	0.0576	0.3143	0.8697
1		10	0.5114	0.1147	0.0363	0.4112	0.7992
Diff (1-2)	**Pooled**		0.0987	0.1523	0.0681		
Diff (1-2)	**Satterthwaite**		0.0987		0.0681		

Chitresh Kumar **Homework 2**

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.6101	0.4797	0.7405	0.1822	0.1254	0.3327
1		0.5114	0.4293	0.5935	0.1147	0.0789	0.2095
Diff (1-2)	Pooled	0.0987	-0.0444	0.2418	0.1523	0.1151	0.2252
Diff (1-2)	Satterthwaite	0.0987	-0.0463	0.2437			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	18	1.45	0.1644
Satterthwaite	Unequal	15.166	1.45	0.1676

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	9	9	2.52	0.1842

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		7	0.6104	0.1285	0.0486	0.4971	0.7937
1		3	0.5184	0.1931	0.1115	0.3360	0.7206
Diff (1-2)	Pooled		0.0920	0.1473	0.1016		
Diff (1-2)	Satterthwaite		0.0920		0.1216		

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.6104	0.4916	0.7292	0.1285	0.0828	0.2829
1		0.5184	0.0388	0.9980	0.1931	0.1005	1.2133
Diff (1-2)	Pooled	0.0920	-0.1424	0.3264	0.1473	0.0995	0.2822
Diff (1-2)	Satterthwaite	0.0920	-0.3112	0.4953			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	8	0.91	0.3917
Satterthwaite	Unequal	2.7976	0.76	0.5077

Equality of Variances				
Method	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Folded F	2	6	2.26	0.3714

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		23	0.6624	0.1801	0.0376	0.3703	0.9198
1		4	0.7004	0.1158	0.0579	0.5564	0.8393
Diff (1-2)	**Pooled**		-0.0380	0.1736	0.0941		
Diff (1-2)	**Satterthwaite**		-0.0380		0.0690		

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.6624	0.5845	0.7403	0.1801	0.1393	0.2549
1		0.7004	0.5161	0.8847	0.1158	0.0656	0.4318
Diff (1-2)	**Pooled**	-0.0380	-0.2317	0.1557	0.1736	0.1362	0.2397
Diff (1-2)	**Satterthwaite**	-0.0380	-0.2075	0.1315			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	25	-0.40	0.6896
Satterthwaite	Unequal	5.9115	-0.55	0.6019

Equality of Variances				
Method	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Folded F	22	3	2.42	0.5101

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		10	0.7022	0.1569	0.0496	0.4304	0.9185
1		1	0.7766	.	.	0.7766	0.7766
Diff (1-2)	**Pooled**		-0.0744	0.1569	0.1645		
Diff (1-2)	**Satterthwaite**		-0.0744		.		

Chitresh Kumar **Homework 2**

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.7022	0.5900	0.8144	0.1569	0.1079	0.2864
1		0.7766	.	.	.	.	.
Diff (1-2)	Pooled	-0.0744	-0.4466	0.2977	0.1569	0.1079	0.2864
Diff (1-2)	Satterthwaite	-0.0744	.	.			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	9	-0.45	0.6617
Satterthwaite	Unequal	.	.	.

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	9	0	.	.

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		12	0.7015	0.1789	0.0516	0.4188	0.9068
1		5	0.6720	0.1769	0.0791	0.4253	0.8620
Diff (1-2)	Pooled		0.0295	0.1784	0.0949		
Diff (1-2)	Satterthwaite		0.0295		0.0945		

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.7015	0.5878	0.8151	0.1789	0.1267	0.3037
1		0.6720	0.4523	0.8917	0.1769	0.1060	0.5084
Diff (1-2)	Pooled	0.0295	-0.1729	0.2319	0.1784	0.1318	0.2760
Diff (1-2)	Satterthwaite	0.0295	-0.1902	0.2492			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	15	0.31	0.7603
Satterthwaite	Unequal	7.6287	0.31	0.7633

Equality of Variances				
Method	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Folded F	11	4	1.02	1.0000

Alcohol

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		497	0.6194	0.1778	0.00798	0.2490	0.9897
1		550	0.6363	0.1688	0.00720	0.2209	1.0808
Diff (1-2)	**Pooled**		-0.0169	0.1731	0.0107		
Diff (1-2)	**Satterthwaite**		-0.0169		0.0107		

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.6194	0.6037	0.6350	0.1778	0.1674	0.1896
1		0.6363	0.6222	0.6504	0.1688	0.1593	0.1794
Diff (1-2)	**Pooled**	-0.0169	-0.0379	0.00410	0.1731	0.1660	0.1809
Diff (1-2)	**Satterthwaite**	-0.0169	-0.0380	0.00416			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	1045	-1.58	0.1146
Satterthwaite	Unequal	1021	-1.58	0.1156

Equality of Variances				
Method	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Folded F	496	549	1.11	0.2333

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		69	0.6346	0.1791	0.0216	0.2664	0.9378
1		55	0.5686	0.1481	0.0200	0.3838	0.9351
Diff (1-2)	**Pooled**		0.0660	0.1661	0.0300		
Diff (1-2)	**Satterthwaite**		0.0660		0.0294		

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.6346	0.5915	0.6776	0.1791	0.1534	0.2153
1		0.5686	0.5286	0.6086	0.1481	0.1247	0.1824
Diff (1-2)	Pooled	0.0660	0.00651	0.1254	0.1661	0.1476	0.1899
Diff (1-2)	Satterthwaite	0.0660	0.00777	0.1241			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	122	2.20	0.0299
Satterthwaite	Unequal	121.82	2.24	0.0266

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	68	54	1.46	0.1484

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		80	0.7015	0.1659	0.0185	0.3527	0.9537
1		67	0.5880	0.1543	0.0189	0.3479	0.8657
Diff (1-2)	Pooled		0.1135	0.1607	0.0266		
Diff (1-2)	Satterthwaite		0.1135		0.0264		

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.7015	0.6646	0.7384	0.1659	0.1435	0.1965
1		0.5880	0.5504	0.6256	0.1543	0.1319	0.1860
Diff (1-2)	Pooled	0.1135	0.0609	0.1661	0.1607	0.1441	0.1816
Diff (1-2)	Satterthwaite	0.1135	0.0612	0.1658			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	145	4.27	<.0001
Satterthwaite	Unequal	143.37	4.29	<.0001

Equality of Variances				
Method	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Folded F	79	66	1.16	0.5473

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		61	0.6811	0.1769	0.0226	0.3628	0.9285
1		33	0.6223	0.1519	0.0264	0.4080	0.9471
Diff (1-2)	**Pooled**		0.0589	0.1686	0.0364		
Diff (1-2)	**Satterthwaite**		0.0589		0.0348		

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.6811	0.6358	0.7265	0.1769	0.1501	0.2154
1		0.6223	0.5684	0.6762	0.1519	0.1222	0.2009
Diff (1-2)	**Pooled**	0.0589	-0.0135	0.1312	0.1686	0.1474	0.1971
Diff (1-2)	**Satterthwaite**	0.0589	-0.0105	0.1282			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	92	1.62	0.1097
Satterthwaite	Unequal	74.725	1.69	0.0952

Equality of Variances				
Method	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Folded F	60	32	1.36	0.3522

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		24	0.7066	0.1566	0.0320	0.4159	0.9327
1		35	0.6505	0.1768	0.0299	0.3234	1.0405
Diff (1-2)	**Pooled**		0.0561	0.1690	0.0448		
Diff (1-2)	**Satterthwaite**		0.0561		0.0438		

Chitresh Kumar **Homework 2**

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.7066	0.6405	0.7728	0.1566	0.1217	0.2197
1		0.6505	0.5897	0.7112	0.1768	0.1430	0.2317
Diff (1-2)	Pooled	0.0561	-0.0335	0.1458	0.1690	0.1429	0.2069
Diff (1-2)	Satterthwaite	0.0561	-0.0316	0.1439			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	57	1.25	0.2151
Satterthwaite	Unequal	53.253	1.28	0.2052

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	34	23	1.27	0.5490

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		13	0.6163	0.1820	0.0505	0.3930	0.9709
1		6	0.6571	0.1987	0.0811	0.3355	0.8122
Diff (1-2)	Pooled		-0.0408	0.1871	0.0923		
Diff (1-2)	Satterthwaite		-0.0408		0.0956		

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.6163	0.5063	0.7263	0.1820	0.1305	0.3005
1		0.6571	0.4486	0.8657	0.1987	0.1240	0.4874
Diff (1-2)	Pooled	-0.0408	-0.2356	0.1540	0.1871	0.1404	0.2805
Diff (1-2)	Satterthwaite	-0.0408	-0.2568	0.1751			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	17	-0.44	0.6640
Satterthwaite	Unequal	9.0561	-0.43	0.6792

Equality of Variances				
Method	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Folded F	5	12	1.19	0.7387

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		5	0.6783	0.1486	0.0665	0.5045	0.8142
1		3	0.7697	0.0965	0.0557	0.6884	0.8763
Diff (1-2)	**Pooled**		-0.0914	0.1335	0.0975		
Diff (1-2)	**Satterthwaite**		-0.0914		0.0867		

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.6783	0.4938	0.8628	0.1486	0.0890	0.4270
1		0.7697	0.5301	1.0093	0.0965	0.0502	0.6062
Diff (1-2)	**Pooled**	-0.0914	-0.3299	0.1472	0.1335	0.0860	0.2940
Diff (1-2)	**Satterthwaite**	-0.0914	-0.3050	0.1222			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	6	-0.94	0.3847
Satterthwaite	Unequal	5.8351	-1.05	0.3335

Equality of Variances				
Method	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Folded F	4	2	2.37	0.6355

Treatment	Method	N	Mean	Std Dev	Std Err	Minimum	Maximum
0		1	0.8357	.	.	0.8357	0.8357
1		1	0.6833	.	.	0.6833	0.6833
Diff (1-2)	**Pooled**		.	.	.		
Diff (1-2)	**Satterthwaite**		.		.		

Chitresh Kumar **Homework 2**

Treatment	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
0		0.8357	.	.	.	.	.
1		0.6833	.	.	.	.	.
Diff (1-2)	**Pooled**	.	.	.	.	.	.
Diff (1-2)	**Satterthwaite**	.	.	.			

Method	Variances	DF	t Value	Pr > |t|
Pooled	Equal	0	.	.
Satterthwaite	Unequal	.	.	.

Equality of Variances				
Method	**Num DF**	**Den DF**	**F Value**	**Pr > F**
Folded F	0	0	.	.

The p-value for Smoke and Alcohol for different consumption is more than 0.05 . Therefore we cannot reject the null. So we can say that smoke and alcohol in control and treatment groups are perfectly randomized. The overall difference between the control and treatment is almost zero as we expect it .