## Assignment 3 Question 1

				$(e_t - e_{t-1})^2$			
t	et		e <sub>t-1</sub>			$e_t^2$	
		0.2		1-2 miles	0	0.04	
	2	0.3		0.1	0.01	0.09	
	3	-0.8		-1.1	1.21	0.64	
	1	-0.8		0	0	0.64	
		-0.3	I A	0.5	0.25	0.09	
6	5	0.4		0.7	0.49	0.16	
		0.1		-0.3	0.09	0.01	
8	3	-0.1		-0.2	0.04	0.01	
9		-0.4		-0.3	0.09	0.16	
10		-0.7		-0.3	0.09	0.49	
1 11		0.6		1.3	1.69	0.36	
12		-0.1		-0.7	0.49	0.01	
13		-0.1	- A Adab	0	0	0.01	
14		0.3		0.4	0.16	0.09	
15		0.2	- Inches	-0.1	0.01	0.04	
sum					4.62	2.84	

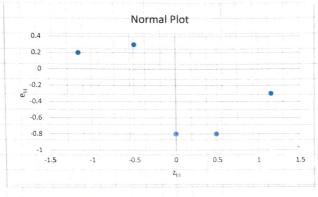
 $0 \text{ No No autiliarian} \qquad \qquad \alpha = 0.1$   $0 \text{ No No autiliarian} \qquad \qquad \alpha/2 = 0.05$ 

to: The error terms are positively or regarding autocorrelated

$$||L-1|| = 2$$
  $||dL_{1,0.05}| = 0.95$   
 $||A|| = 15$   $||dU_{1,0.05}| = 1.54$ 

since d=1.6268 > du, aus =1.54 % since 4-d=2.3732 > du, o os = 1.54, who tail to reject the more fre, the error terms are not a Accommended.

i	e	(3i -	(3i -1)/(3n+1)		
	1	0.2	0.125	-1.150349	
	2	0.3	0.3125	0.4887764	
1	3	-0.8	0.5	0	
	4	-0.8	0.6875	0.4887764	
	5	-0.3	0.875	1.150349	



Since the plot is not a straight line pattern, there is a violation of A4, and thus the normality assumption does not hold.