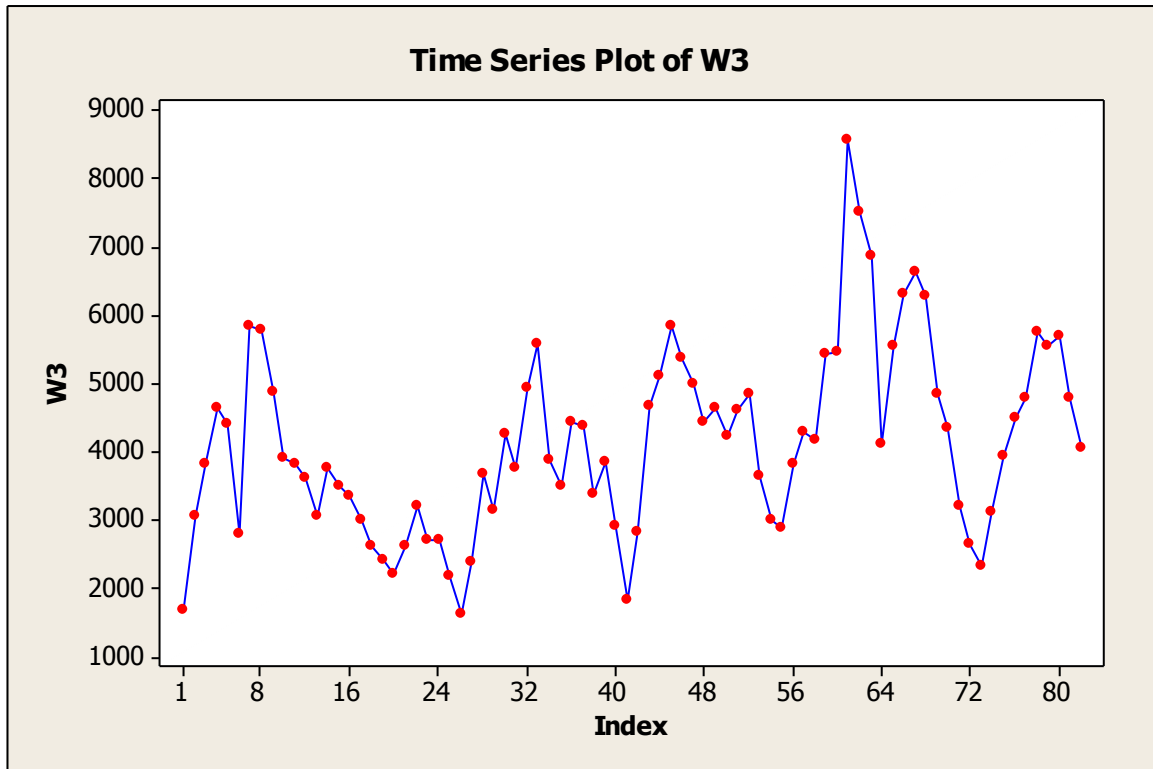


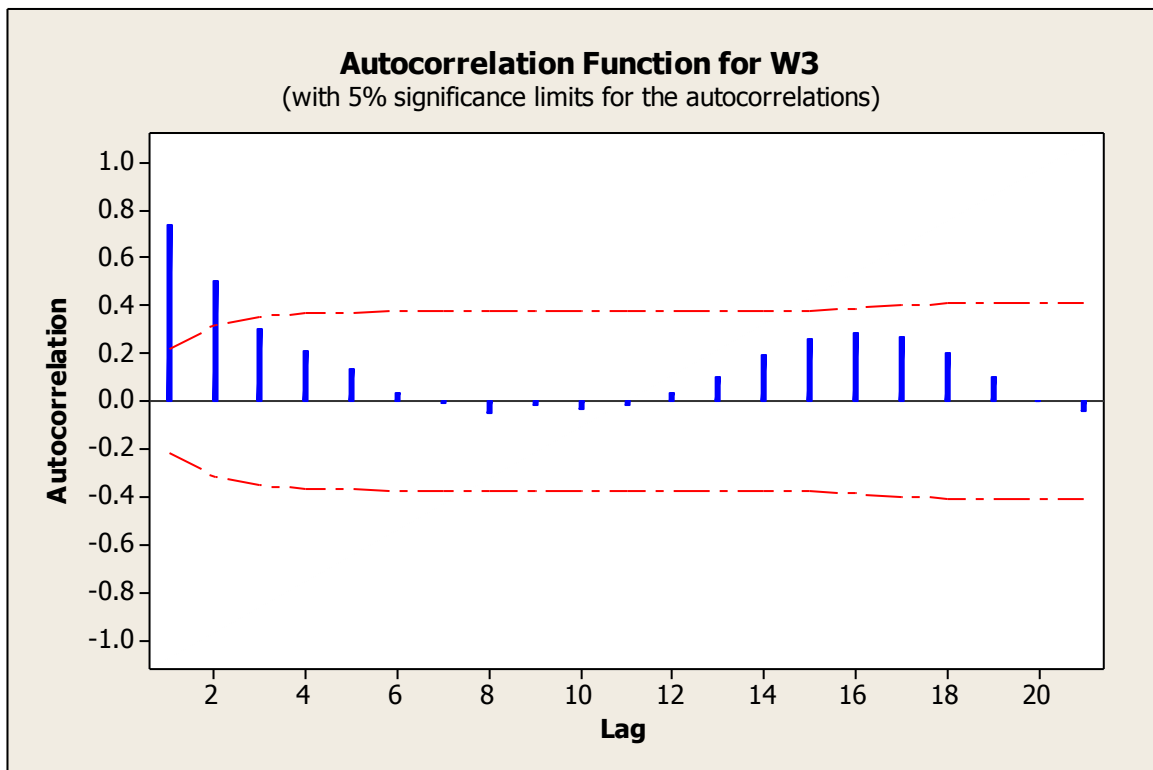
**TIME SERIES (W3)**

**AFNAN AHMED**

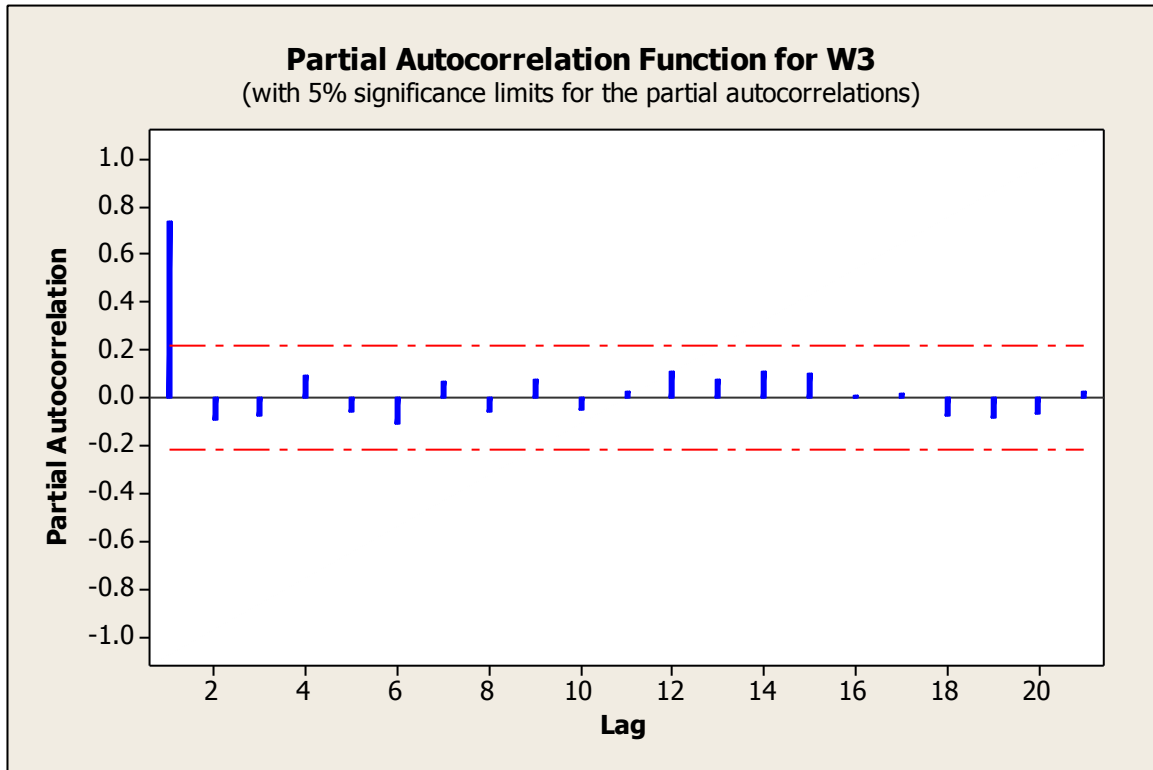
## Time Series Plot



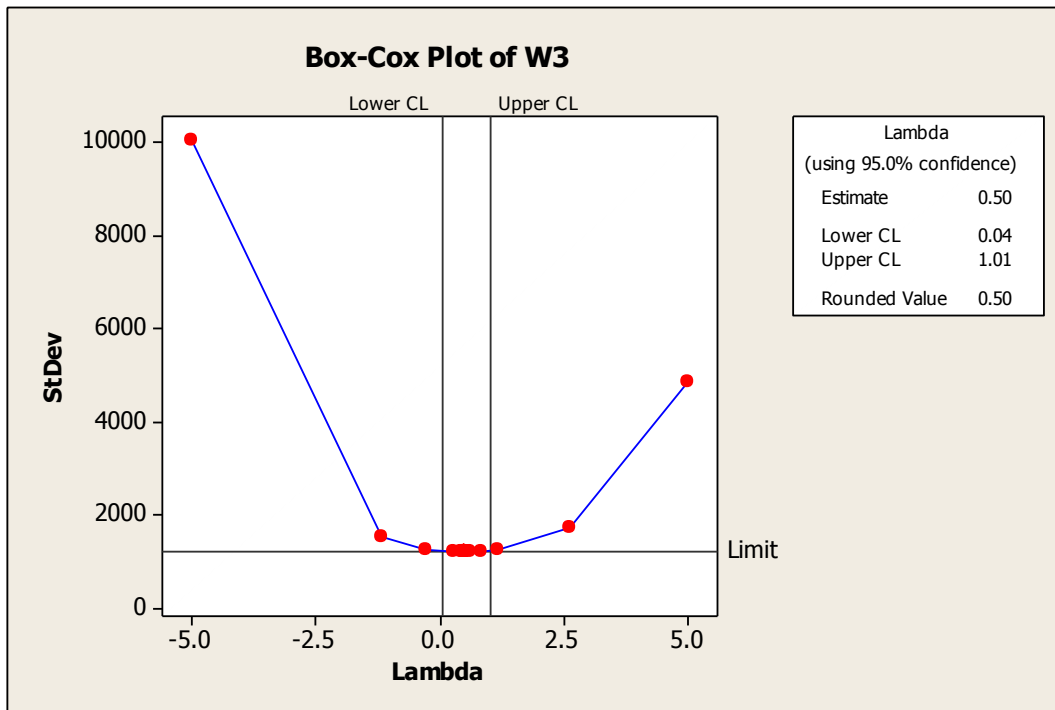
## ACF



## PACF

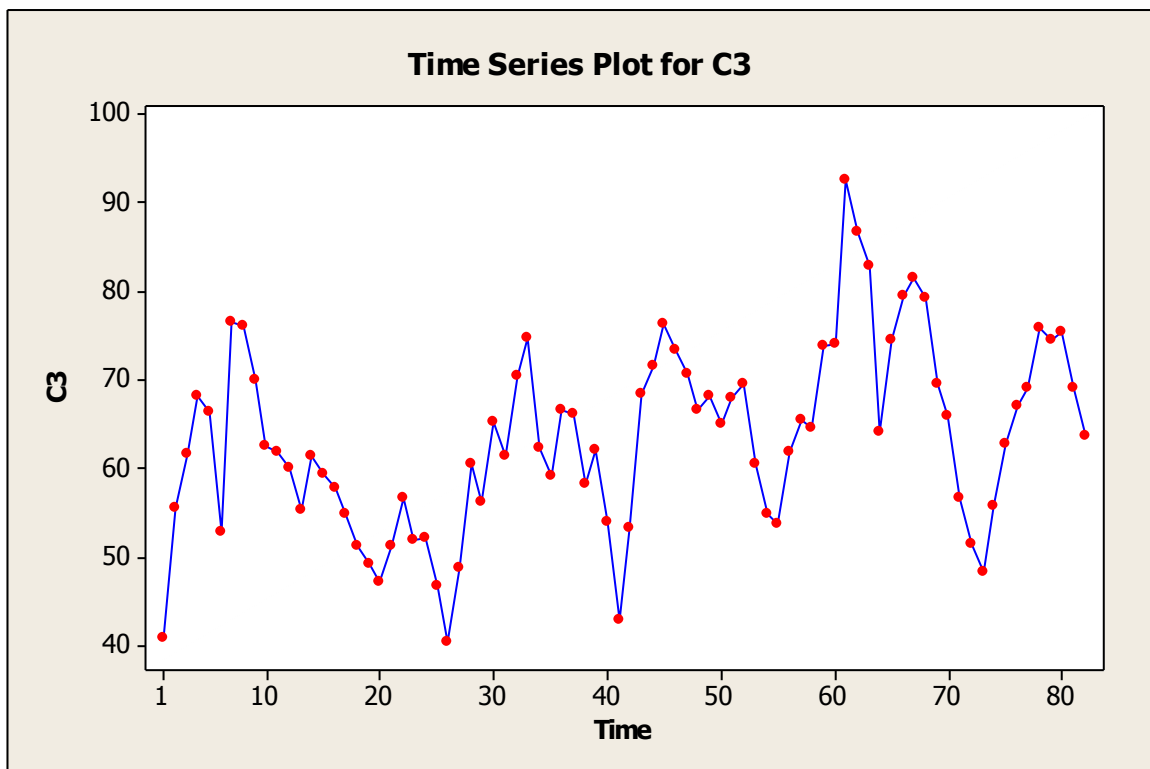


## Transformation



Lambda is 0.5

\*\* Transformation is SORT(W3)



## FITTING THE MODEL

ARIMA

Series:   Fit seasonal model  
Period:

	Nonseasonal	Seasonal
Autoregressive:	<input type="text" value="1"/>	<input type="text" value="0"/>
Difference:	<input type="text" value="0"/>	<input type="text" value="0"/>
Moving average:	<input type="text" value="0"/>	<input type="text" value="0"/>

Include constant term in model  
 Starting values for coefficients:

Select

Help

Graphs... Forecasts...  
Results... Storage...  
OK Cancel

## ARIMA MODEL ARIMA(1,0,0) (AR(1))

Estimates at each iteration

Iteration	SSE	Parameters	
0	7769.48	0.100	57.217
1	6248.08	0.250	47.673
2	5108.29	0.400	38.125
3	4349.99	0.550	28.571
4	3972.97	0.700	19.002
5	3929.13	0.755	15.403
6	3926.31	0.768	14.549
7	3926.09	0.772	14.309
8	3926.07	0.773	14.240
9	3926.07	0.773	14.220

Final Estimates of Parameters

Type	Coef	SE Coef	T	P
AR 1	0.7729	0.0716	10.80	0.000
Constant	14.2200	0.7637	18.62	0.000
Mean	62.623	3.363		

**P-VALUE<0.05**

Number of observations: 82

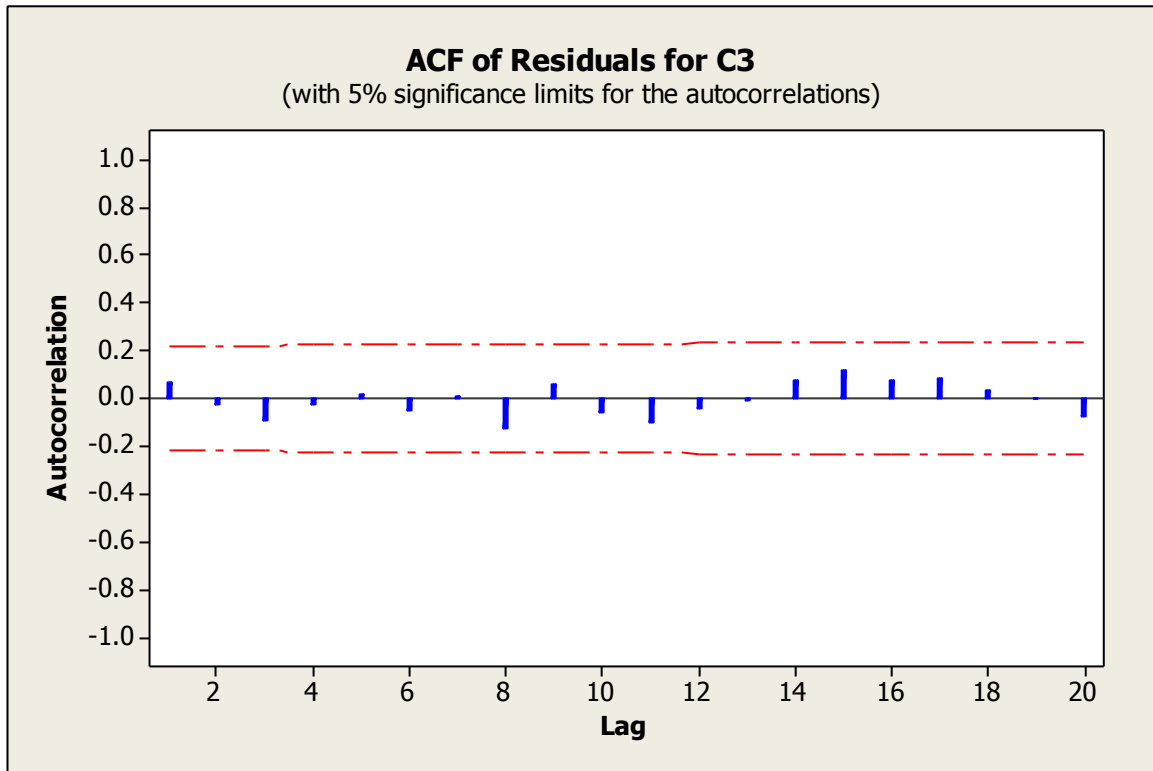
Residuals: SS = 3812.98 (backforecasts excluded)  
MS = 47.66 DF = 80

Modified Box-Pierce (Ljung-Box) Chi-Square statistic

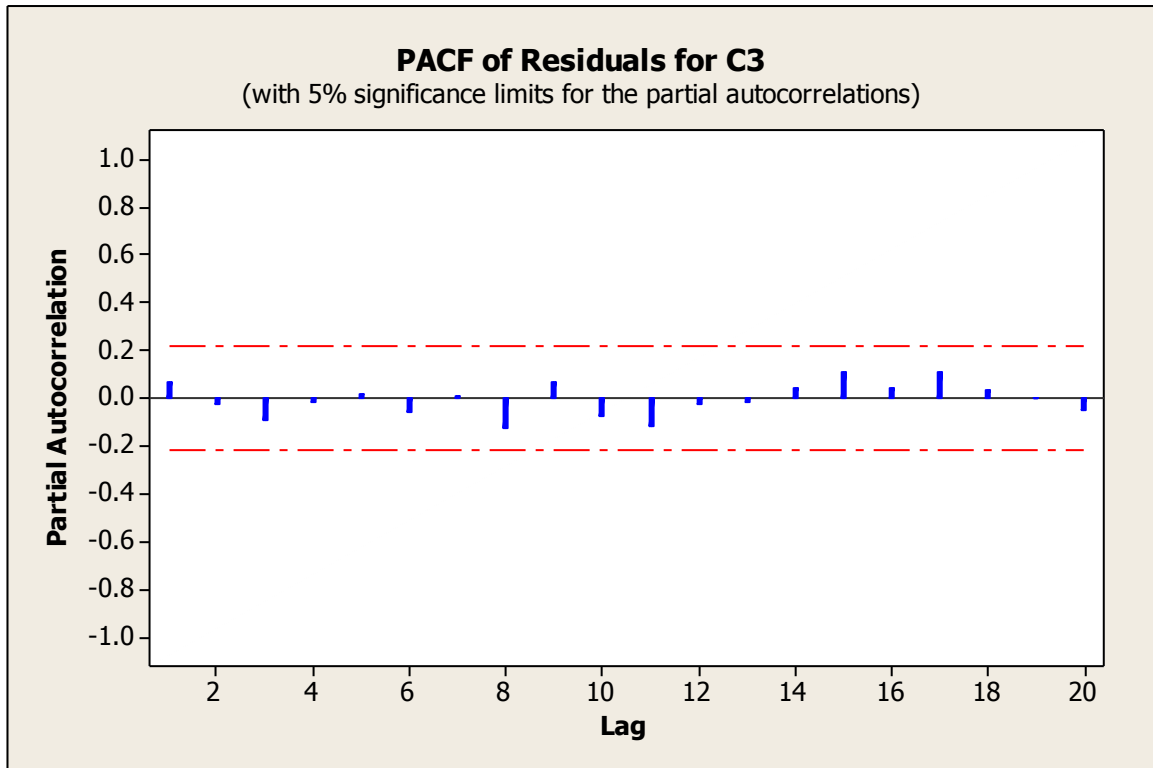
Lag	12	24	36	48
Chi-Square	4.6	10.8	26.5	30.7
DF	10	22	34	46
P-Value	0.916	0.978	0.817	0.960

**P-VALUE>0.05**

### ACF OF RESIDUALS



### PACF OF RESIDUALS



## RESIDUALS PLOTS

