## 2.9 Volatility

Compute close-close volatility using the following data:

Closing		
Day	_	Dividend
0	3.27	0
1	3.67	0
2	2.85	0
3	3.42	0
4	3.78	0.03
5	3.60	0
6	3.20	0
7	3.13	0
8	3.44	0
9	3.62	0
10	3.05	0
11	3 34	0

## SOLUTION:

## Day Returns ln(Returns) 1.1223 0.11542 0.7766-0.25293 1.20000.18234 1.11400.10805 0.9524-0.04886 0.8889-0.11787 0.9781-0.02218 1.09900.09449 1.0523 0.0510 $10 \quad 0.8425$ -0.1713 $11 \quad 1.0951$ 0.0908

Daily volatility = standard deviation of ln(Returns) = 0.1307; Annualized volatility (multiply by  $\sqrt{365}$ ) = 2.4973;