

## Assignment 1

### IPE 4111

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A large German multinational corporation that designs and manufactures athletic and casual footwear, apparel and accessories wants to forecast demand. A review of past sales has been collected and summarized in the following table. A noticeable trend is found. Smoothing constants are assigned the value of  $\alpha = 0.4$  and  $\beta = 0.8$ . The initial forecast for month 1 was 985 units and the trend over that period was 256 units. Calculate the forecast of month 10 considering the trend.

Month	Actual Demand	$F_t$	$T_t$	$FIT_t$
1	1200	985	256	
2	1285			
3	1350			
4	1575			
5	1660			
6	1700			
7	1825			
8	1920			
9	2180			
10	-			