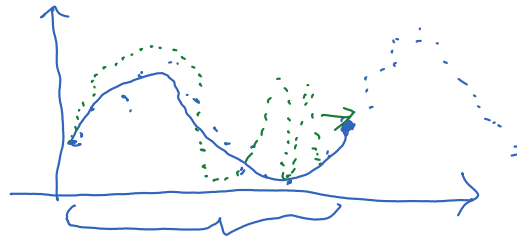
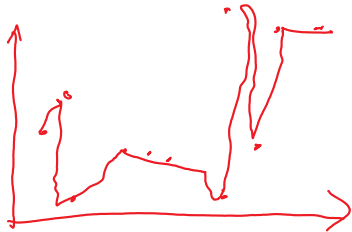
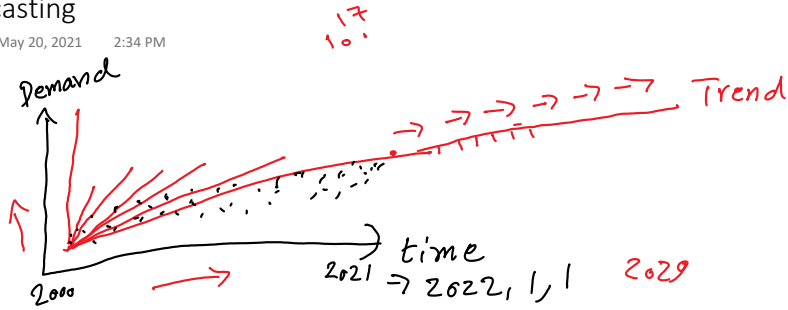


Forecasting

Thursday, May 20, 2021 2:34 PM



Drugs for Flu



probability of risk of another pick → there should be thinking about this

Month	Demand	Naïve	3-months Moving average	5-months Moving average
Jan	120	—	—	—
Feb	90	120	—	—
Mar	100	90	—	—
Apr	75	100	103.3	—
May	110	75	88.3	—
Jun	50	110	95	99
Jul	75	50	78.3	85
Aug	130	75	78.3	82
Sep	110	130	85	88
Oct	90	110	105	95
Nov	-	90	110	91

$$MA_3 = \frac{\sum_{i=1}^3 D_i}{3}$$

$$MA_3 = \frac{120 + 90 + 100}{3} = \frac{310}{3} = 103.3$$

$$MA_3 = \frac{90 + 100 + 75}{3} = 88.3$$

$$MA_3 = \frac{110 + 75 + 100}{3} = 95$$

$$MA_3 = \frac{75 + 110 + 50}{3} = 78.3$$

$$MA_3 = \frac{75 + 50 + 110}{3} = 78.3$$

$$MA_3 = \frac{130 + 75 + 50}{3} = 85$$

$$MA_3 = \frac{110 + 130 + 75}{3} = 105$$

$$MA_3 = \frac{90 + 110 + 130}{3} = 110$$

$$MA_5 = \frac{\sum_{i=1}^5 D_i}{5}$$

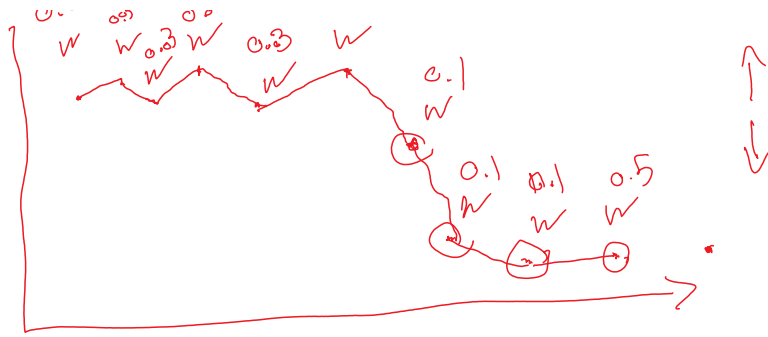
$$MA_5 = \frac{110 + 75 + 100 + 90 + 120}{5} = 99$$

↓
the rest
do it yourself

$$\sum_{i=1}^n W_i = 1$$



$$0 \leq W \leq 1$$



$$w = w = 1$$

	$\frac{W}{0.17}$	\times	$\frac{\text{Demand}}{130}$
Aug			$\rightarrow 130$
Sept	0.33	\times	$\rightarrow 110$
Oct	0.5	\times	$\rightarrow 90$

$$WMA_3 = \frac{\sum_{i=1}^3 W_i D_i}{\sum_{i=1}^3 W_i}$$

$$WMA_3 = \frac{0.17 \times 130 + 0.33 \times 110 + 0.5 \times 90}{0.17 + 0.33 + 0.5} = 103.4$$

