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Final Assignment - 1

Ans to the Question NO-1

Calculate the triend value wring semiaverages method.

TV200	2008	2009	2010	2011	2812	2013
Income	43	5	64	76	81	96

Ans:

Years	Income	5 Kears somi-total	-7 years soniting	Fraend Values			
2008	43	158		52.67-10.552			
2000	51		52.67	42.11+10.55=			
2010	64			52.67 + 10.55 =			
2011	76	253	84.33	63.22 + 10.55= 33.77			
2012	81			7377-410-55=84-			
2013	96			84.32+10.35=			
Name and Address of the Owner, where the Owner, which the							

Ans who the authority of Difference between the control Years = 2012-2009 = 31.66 Irenease in-triend value for one Years = 10,55 16 - 93 OI 1- ELERE & & 188

advisor to be the later to the company

Ans to the Q.No-2

			Name and Address of the Owner, where the Park of the Owner, where the Owner, where the Owner, where the Owner,	
Year	Loan	3- years somi Total	By-ears semi	
		sem 10700	averrage	
2004	40			
2005	42	121	40.83	
2006	30	106	35.33	
2007	25	01	30'33	
2008	27	103	34.33	
2009	57	106	35-33	
2010	28	105	35	
2011	26	85	28'33	
2012	31	87	20	
2013	30	100	36, 33	
2014	418			

Ans to the Q. NO - 03

The transition probability matrix
$$P = \begin{bmatrix} P_{00} & P_{01} \\ P_{10} & P_{11} \end{bmatrix} = \begin{bmatrix} 0.6 & 0.4 \\ 0.8 & 0.2 \end{bmatrix}$$
We need P_{06}^{5} in p_{5}^{5}

$$P' = \begin{bmatrix} 0.6 & 0.4 \\ 0.8 & 0.2 \end{bmatrix} \begin{bmatrix} 0.6 & 0.4 \\ 0.8 & 0.2 \end{bmatrix}$$

$$P' = \begin{bmatrix} 0.68 & 0.32 \\ 0.64 & 0.36 \end{bmatrix}$$

$$P' = \begin{bmatrix} 0.68 & 0.32 \\ 0.64 & 0.36 \end{bmatrix} \begin{bmatrix} 0.68 & 0.32 \\ 0.64 & 0.36 \end{bmatrix}$$

$$P' = \begin{bmatrix} 0.6672 & 0.3328 \\ 0.6656 & 0.3344 \end{bmatrix}$$

$$p^{5} = \begin{bmatrix} 0.6672 & 0.3328 \\ 0.6656 & 0.3344 \end{bmatrix} \begin{bmatrix} 0.6 & 0.4 \\ 0.8 & 0.2 \end{bmatrix}$$

= 0.66656 0.33344 0.66688 0.33312

The nequined probability is 0.66656 [Ans.]

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Aws to the aNO:-4

i) morce than I minute,

ii) less than 2 minute,

$$P(TL2) = 1 \cdot e^{-\lambda t}$$

$$= 1 \cdot e^{-2x^2}$$

$$= 1 - e^{-4}$$

$$= 0.9816$$

iii) between 1 to 2 minute

$$P(12TL2) = e^{-\lambda t_1} - e^{-\lambda t_2}$$

$$= e^{-2x_1} - e^{-2x_2}$$

$$= e^{-2} - e^{-4}$$

$$=$$