Final Acsighnment-1
Ritath Bin Mashrun, ID: 20-

serial: 10

1) calculate the triend value using semiaverage method

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	YRAG	798	2009	2010	2011	2012	2013
	Leave	2088	2009	Fa	76	81	196
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	Liconie	<b>_</b>	1	6173	1 A /	9	the Harry

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Year	Income	3 & Search	Somi	3. searisan My	Triend values
2038	43	4			52.67-10.55-42.11
2009	51	158		15 2-67	42.11410.55=52.67
2010	64		Activities (Alle		52.67 +10.55 =6322
2011	76	25	X	84.33	63.22+10.55=73.72
2012	81	253	p. 105		73.77+6.55=84.32
2013	96				84.32+10.35=94.8
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All of the	84.333 -	52.667)=	31.666	
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Year	loan	3 Year seri total	3 year semi
2004	111.00 161	1. Jan 1 _ 121	
2005	P42	. 5/2/ /199	4-0.333
2006	39	106	35.333
2007	25	1.91 507	30.333
2008	127).	0 10 3 - 0	34.333
2009	51	106	35-333
2010	23/	5.105 P	35
DOU	26	7/8/50	28.333
5015	3/1.0	L812	29
2013	30/3	58.0109	3.0
2014	48	5.0	36.333
			the

Serial-10 Ans to the Que No-3 tros tion 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 Poo in P5 P2 = [ [ 0.6 0.4] [ 0.6 0.4] [ 0.8 0.2] = [0.68 0.32] = [0.64 10.36]  $p^{4} = \begin{bmatrix} 0.68 & 0.32 \end{bmatrix} \begin{bmatrix} 0.68 & 0.33 \end{bmatrix} \begin{bmatrix} 0.$ 

ICOKON - 10 P5 = [0.6672 0.6656 = [0.66688 0.33344 0.33312 required Probibity is 0.66656 The Ans to the Que No.4 Civen Paireson vote 2=2 per minute (i) P(mone, than I minute) = P(T>1)  $= e^{-2x}$   $= e^{-2x}$  = 0.13534(ii) P(less Haan 2 minutes) = P(BT < 2) = 1-e-2+2 (iii) P(between 1 to 2 minutes) = P(1<7(2)) = e - 2x1 e - 2x2