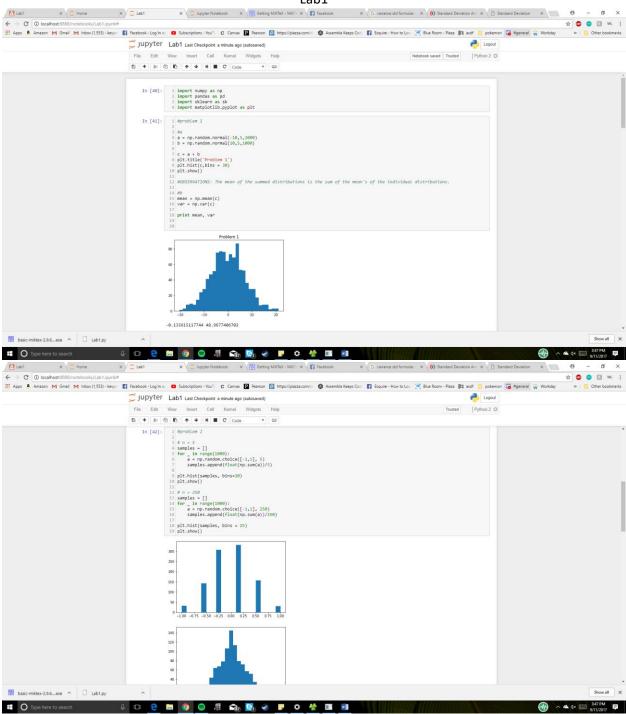
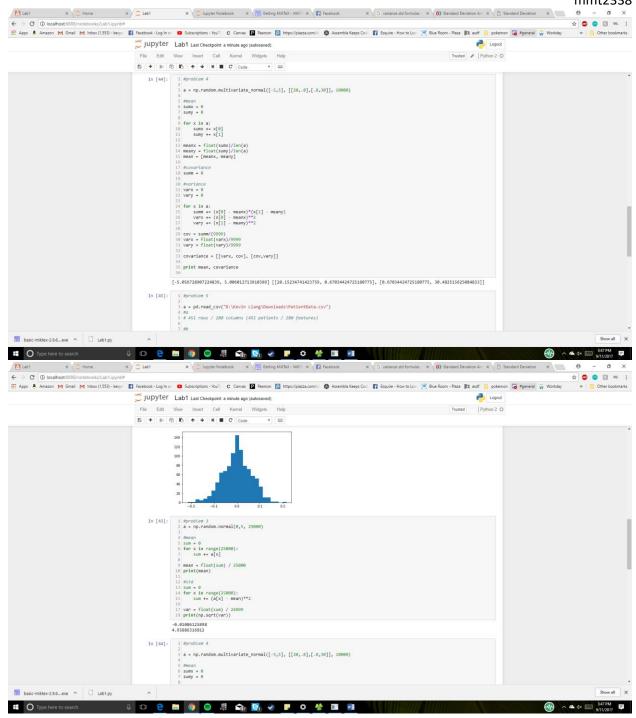
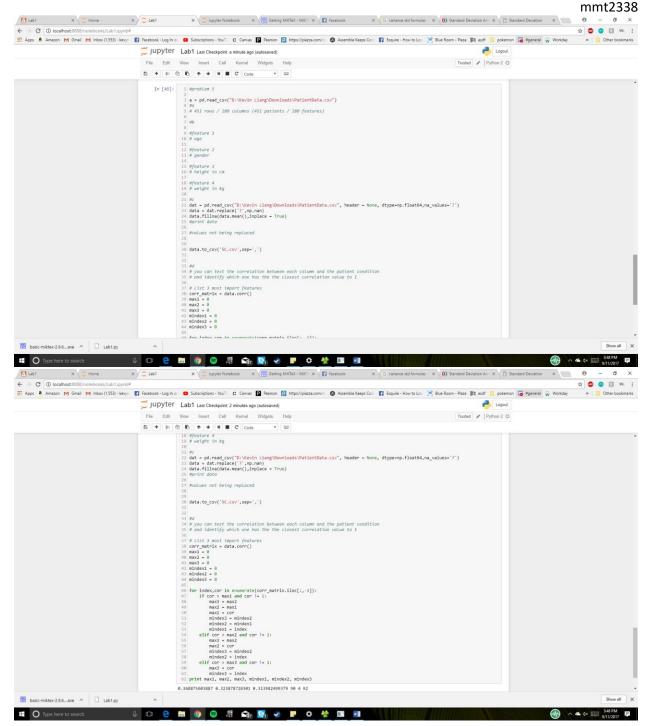
Lab1







	(a). $\frac{1}{4} + \frac{1}{2} = \sqrt{\frac{7}{12}}$
	b), $\frac{1}{3} / \frac{3}{6} = \begin{bmatrix} \frac{2}{3} \\ \frac{2}{3} \end{bmatrix}$
	c). Vor(x) = E(x] - E[x]2 = 164+3) -(164+3))2
	= \frac{7}{12} - \frac{4d}{144} = \frac{35}{144}
	d). Vor(X Y=1) = E [x2 Y=1] - (E[x1 Y=1]) = 2 - 4 = 12]
	e). E(x3+42+3Y7/Y=1] = 3. \frac{1}{3} + 5. \frac{2}{3} = \frac{13}{3}
2.	$V_1 = [1, 1, 1]$ $V_2 = [1, 0, 0]$
	$V_{1} \times V_{2} = [0, 1, -1]$
	Pi = proj NP, = P. N = 0+3-3 (D,1), P. O print Pi = (3, 3, 3]
	$P_2 = P_{11} \setminus P_2 = \frac{2}{2} = 2$
	Projat: = P2-PMNP2=[1,7,3]-[0,-2,2]=[1=[1=]
154 154	P3= Pn), P3=== [0, 1, -1] = [0, -2, 2]
	Proj Ti P3 = B3 - Proj N 3 = [U, U, 1] - [U, -1, 2] = [U, 2, 2]
n	

Kevin Liang kgl392 Matthew Tan mmt2338

		mmt2338
		0
		•
*		0
3,	Bin CDF: Eo (i) pi (1-p) Iw, (i)	•
	binom CDF 150, 100, 0.666) I'm MATLAK	
	- 4.419 E-4)	6
	La Company of the Com	6
	1 Valy 1/20 - 12 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	6
		6
	12, 5 2 5 2 5 6 7 5 1 7 5 7 7 7 7 7 7	
		6
		0