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EX. NO	Experiment Name	Page
1	Find out the point estimate of the population mean and interval estimate of the population mean. Where 30 students quiz test marks is (2,4,3,23,25,27,28,13,15,16,20,14,35,33,32,21,35,40,42,22,33,13,17,20,25,29,27,40,38,31) Total marks 50. Here population size N=30 and sample size n=10.also illustrate the sample size determination, sampling distribution for mean and check the unbiasedness of the population mean.	
2	Two dice rolled, S is the sum of both faces, Find the expectation of S, E(s) and variance of S, V(s). Plot the distribution of S and dice D.	
3	A herd of 1500 steer was fed a special high protein gain for a month. A random sample of 29 was weighted and had gained an average of 6.7 pounds. If the sd of weight gain for the entire herd is 7.1. Test the hypothesis at 5% level of significance that the average weight gain per steer for the month was more than 5 pounds. Also comments on the test using the p-value. Create the confidence interval.	
4	In order to find out whether children with chronic diarrhea have the same average hemoglobin level(HB) that is normally seen in healthy children in the same area, a random sample of 10 children with Chronic diarrhea are selected, and their HB levels <g (g="" 0.01="" 11.1,="" 11.4,="" 12.3,="" 13.2.="" 13.8,="" 14.2,="" 14.6="" 14.8,="" 15.1,="" 15.3,="" 15.8,="" a="" and="" are="" as="" at="" boxplot="" children="" chronic="" comments.<="" data="" diarrhea="" dl)="" dl)?="" do="" draw="" evidence="" follows:="" for="" hb="" indicate="" is="" less="" level="" mean="" normal="" obtained="" of="" plot="" provide="" significance.="" sufficient="" test="" th="" than="" that="" the="" this="" to="" value="" with=""><th></th></g>	
5	In order to find out whether children with chronic diarrhea have	

	the same average hemoglobin level(HB) that is normally seen in healthy children in the same area, a random sample of 10 children with chronic diarrhea are selected, and their HB levels <g .another="" 11.1,="" 11.1,15.1,15.8,13.2="" 11.4,14,2,="" 11.5,="" 12="" 12.3,="" 12.7,="" 13.0,12.5,="" 13.4,="" 13.8,="" 14.0.="" 14.1,="" 14.5,="" 14.8,="" 15.2,="" 15.3,="" 17.2,="" any="" are="" as="" between="" children="" children???<="" chronic="" diarrhea="" difference="" dl="" follows:="" groups="" hb="" in="" is="" label="" mean="" obtained="" of="" random="" sample="" th="" the="" there="" two="" with=""></g>							
6	Test the hypothesis that the mean systolic blood pressure of							
	healthy subjects (status-0) and subject with hypertension							
	(status-1) are equal, have do= 0. The dataset contains n1= 25							
	subjects with status-0 and n2= 30 with status-1. Status-0: (120, 115, 94, 118, 111, 102, 102, 131, 104, 107, 115, 120, 115, 113, 114, 105, 115, 124, 100, 100, 02, 118, 100, 106							
	139, 115, 113, 114, 105, 115, 134,109, 109, 93, 118, 109, 106, 125). Status-1: (150, 142, 119, 127, 141, 149, 144, 142, 149, 161, 143, 140, 148, 149, 141, 146, 159, 152,135, 134, 161, 130, 125, 141, 148, 153, 145, 137, 147, 169).							
7	The 126 people have some doing smoking and some do not smoke. Some of this type of data are tabulated is given below:							
	Diseases Smoking	Heart disses	Not heart disses	Total				
	YES	55	16	71				
	No	23	32	55				
	Total	78	48	N=126				
	Is there any asso	ciation betweer	smoking and heart	disses for				
	the given data???							
8			g booths, we test so	* *				
			, where the number					
			ers of people of boo ative, positive, nega					
	· ·							
	negative, positive, positive, negative, positive. Both-2: negative, negative, negative, positive, negative, negative, negative.							
	Is there any relation between two both???							
9	The number of s	systolic blood pr	ressure of healthy su	ıbjects. The				

	data set contains n=25.				
	120, 115, 94, 118, 111, 102, 102, 131, 104, 107, 115, 139, 115,				
	113, 114, 105, 115, 134,109, 109, 93, 118, 109, 106, 125.				
10	Do you think that the sample follows N(µ,400)				
10	Test the hypothesis that the mean systolic blood pressure of				
	healthy subjects (status-0) and subject with hypertension				
	(status-1) are equal, have do= 0 . The dataset contains $n1=25$				
	subjects with status-0 and n2= 30 with status-1.				
	Status-0: (120, 115, 94, 118, 111, 102, 102, 131, 104, 107, 115,				
	139, 115, 113, 114, 105, 115, 134,109, 109, 93, 118, 109, 106,				
	125).				
	Status-1: (150, 142, 119, 127, 141, 149, 144, 142, 149, 161,				
	143, 140, 148, 149, 141, 146, 159, 152,135, 134, 161, 130, 125,				
	141, 148,153, 145, 137, 147, 169).				
	Are the variations in systolic blood pressure of healthy subjects				
	with hypertension are same?				
11	The sample observation are				
	122,145,120,45,98,67,109,100,107,106,93,125,130,90,34,108,8				
	0,48,65,56. The test hypothesis at 5% level of significance that				
	the test of median .Do you think that the median is 110?				
12	Test the hypothesis that the median systolic blood pressure of				
	healthy subjects (status-0) and subject with hypertension				
	(status-1) are equal, have do= 0 . The dataset contains $n1=25$				
	subjects with status-0 and n2= 30 with status-1.				
	Status-0: (120, 115, 94, 118, 111, 102, 102, 131, 104, 107, 115,				
	139, 115, 113, 114, 105, 115, 134,109, 109, 93, 118, 109, 106,				
	125).				
	Status-1: (150, 142, 119, 127, 141, 149, 144, 142, 149, 161,				
	143, 140, 148, 149, 141, 146, 159, 152,135, 134, 161, 130, 125,				
	141, 148, 153, 145, 137, 147, 169).				
	Is there any difference in the median between status-0 and				
	status-1?				