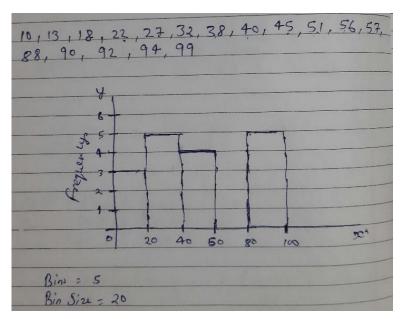
FULL STACK DATA ANALYTICS

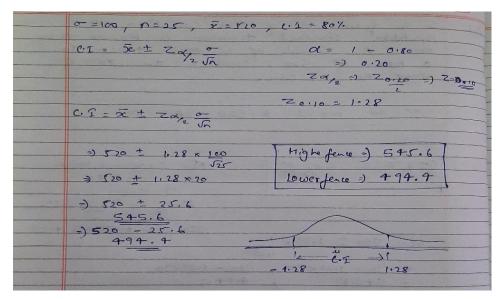
STATISTICS ASSIGNMENT

Que 1) Plot a histogram,

10, 13, 18, 22, 27, 32, 38, 40, 45, 51, 56, 57, 88, 90, 92, 94, 99



Que 2) In a quant test of the CAT Exam, the population standard deviation is known to be 100. A sample of 25 tests taken has a mean of 520. Construct an 80% CI about the mean.



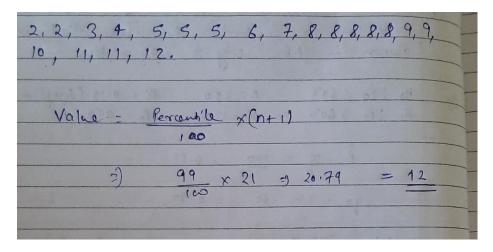
Que 3) A car believes that the percentage of citizens in city ABC that owns a vehicle is 60% or less. A sales manager disagrees with this. He conducted a hypothesis testing surveying 250 residents & found that 170 residents responded yes to owning a vehicle.

- a) State the null & alternate hypothesis.
- b) At a 10% significance level, is there enough evidence to support the idea that vehicle owner in ABC city is 60% or less.

	Total Control of the
thy	He: 16 \ 60% N=250 Q = 0:10 (Significance vanish) H: 16 > 60% \(\text{Significance} \)
	P = 120 = 0.68
	2-test with proportion one tailed test
	P-P0 3) 0,68-0.60 10.680.4 10.680.4 Printed Printed
	7) 21582
	1-0,99506
	1 Prvolne < Significance level) 2:582
)) /	Conclusion! - Null Hypotheris Rejected. Therefore, there is not enough evidence to claim that the population population 1p' is greater than 0.60, at the 0=0.10 significational

Que 4) What is the value of the 99 percentile?

2,2,3,4,5,5,5,6,7,8,8,8,8,8,9,9,10,11,11,12



Que 5) In left & right-skewed data, what is the relationship between mean, median & mode?Draw the graph to represent the same.

