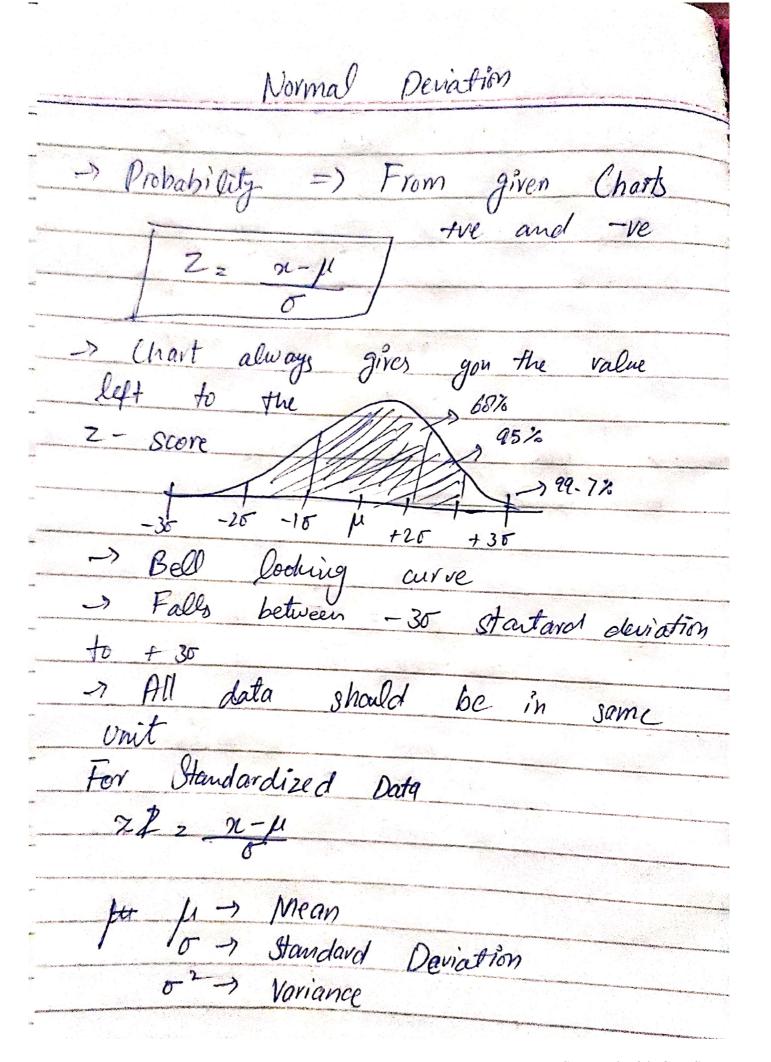
Average Results	1
	No. of the last of
Varioure:	-
$\sigma = \sqrt{np(1-p)}$	
	-
	4
Hypergeometric Probability Distribution	
Distribution)	0
· Independant Success isn't met · Grood for finite and small	E
· Grood for finite and small	
number of population where the population falls into separat	
population falls into separat	è
caragories.	1
· Without Replacement	4
· Every trial is dependant o	
L'aletina 12	
=> Selecting, 5 members from a	
commetee of 3 chemist and 6 physicists. If we select I	1
lamist the Hand	J
Louisit to be calent	
chemist to be select and same as for the physicist. So, the	N
sample space does't remains constant.	
Sample officer	V

Selection is from different alageory P(y) Where number of successes in trials in N = total number of elements r = number of successes in population number of failure in population n = number of trials (sample space) in trials number the equ. Describing Number of ways choose n out of N n n-y failures

always 0 ~ probability, ~ 1 Som of all probabilities must be 1
Sum of all probabilities must be si
Experted value: (Averege)
$\mathcal{L} = \frac{nr}{N} \Rightarrow \mu \Rightarrow np$
· VAV?
Variance:
g² z nr
· The probability of SUCCESS
changes on each trial
· Fixed number of trials
POISSON Distribution
· Rote of Successes
Rote 2 Accuse
some unit
The hourly arrivals to a machine in a production process
machine in a production on
variable ()
number of a
number of Occurances
s Every occurance is independent

The ran	dom Varia	ble must	be
discrete.			
The n	ate does	thave to	pe
oliscrete,	because	治	average
P(y=n)	$(2) 2 \lambda^{2} e$	-> or H	αe-μ
	21	The first setting and the first setting of the sett	w!
91 = rad	to al no	curance	
•		<u>Laryrro</u>	
<u>e = 2</u>	•10		
· · · · · · · · · · · · · · · · · · ·			ing street
Varionce	\$ \sigma^2	$=$ λ^2 , $\overline{\mu}$	rerefore,
Standard	A SAN DESCRIPTION	is 2	
3100 814.0			
. It old	es't have	an upp	er bound
	langed is	O cer	nt have
negative	account	of o	centances.
			77.30
		and the state of t	
Control of the Contro			



Regression
Linear Regression / Relaction b/w variables
The dependence of one variable,
called the dependant variable.
others are called independant
Wriables.
-> The relation between the espected
value of the dependant variable
and the independent variable is
called regression relation.
-> Linear regression is generally written as $p.v \rightarrow \dot{Y} = a+b \ X \ (+ E) \rightarrow error term$ Where $I.v$
$p.v \rightarrow Y = a+b X + E \rightarrow emor term$
Where I.V (con be reglacted)
a => the value of Y when Y = 0
and called 4- intercept
p => indicates the charge in y
when one-unit change in X
and called Slop of the line
$\alpha = 2X^2 \Sigma Y - \Sigma X \Sigma X Y$
$n\Sigma X^2 - (\Sigma X)^2$
$b = \Sigma(X - \overline{X})(Y - \overline{Y})$
$\Sigma(x-\overline{x})^2$
$-08-b_2$ $h\Sigma XY - (\Sigma X)(\Sigma Y)$
nEX2- (2X)2
**Shallow and the second and the sec

Correlation casure of the degree to which two variables vary together distinction between dependant . Independant . Measure one variable increase decreases, the correlation other me negative or inverse. Said to