Hypothesis testing and mechanism
p you can guess
of Judia is 45 years  Population  Population  Sample (mean)
Hypothesis testing
# Hypothesis testing
* Hypothesis > It is a Claim or statement or an
assumption about a population parameter
that can be tested using statistical
consumption about a population parameter that can be tested using statistical wethods.
as all it aublever is tok
Average Salary of I surply
g Consumption of Ite-cream is more in Summer.
In Summer.
A a with it accused
Jet the feerson is not guilty if accused of any crime.
of any Crime.
D Null hypothesis > The initial or default assumption.
agsumphion.
> Ex Person is not guilty.
2) Alternate hypothesis > Opposite of Null hypothesis
Ex Person is guilty.

* Hypothen's testing	
-> you made a claim abo average age is 45 years) (Hypot	ut the bopulation ( say
aurouse are is usuand ( Hy box	hen's)
anonge age is 45 feets)	
The to time I resoure not go to each person record age.	u Constraints, jou can
not go to each perso	n of population to
relord age.	O
lake sample, Colculate	ang age of sample a
Check if the Sample an	g age is close
In the classics if I	
hoby like in the state of the s	e have made asom
check if the sample au  to the claim that you  population >> trying to v	erry to hypornens
\	
hy potheris to	strq-
on Nechanician (Hybotheris testing)	
TO TOTAL TIME (T)	
	\
Step 1) Frame the by pother's.	Claim Stakement
Mechanism (Hypothen's testing) Step () Frame the hypothen's.	Claim   statement
(laim: Avg age of people	Mull byotheris Alternate
(laim: Avg age of people	Null hypotheris Alternate
Ext Claim: Aug age of people in PW skills is 45 years.	Null hypotheris Alternate  (Ho) hypotheris  (Ha)
(laim: Avg age of people in PW skills is 45 years.	Null hypotheris  (Ho)  Alternate  hypotheris  (Ha)
Claim: Avg age of people in pwskills is 45 years.	Null hypotheris  (Ho)  Alternate  hypotheris  (Ha)  Ho will have
Ext Claim: Aug age of people in PW skills is 45 years.	Null hypotheris  (Ho)  Alternate  hypotheris  (Ha)
(laim: Avg age of people in PW skills is 45 years.  Ho: Hag=45 Ha: Hage \$45	Null hypotheris  (Ho)  Alternate  hypotheris  (Ha)  Ho will have  equality (igh-
Laim: Avg age of people in PW skills is 45 years.  Ho: Hag=45 Ha: Hage \$45  En Avg age of Employee in ABC	Null hypotheris  (Ho)  Alternate  hypotheris  (Ha)  Ho will have  equality (ign.
(laim: Avg age of people in PW skills is 45 years.  Ho: Hag=45 Ha: Hage \$45	Null hypotheris  (Ho)  Alternate  hypotheris  (Ha)  Ho will have  equality (igh-
Laim: Avg age of beoble  In PW skills is 45 years.  Ho: Hag=45 Ha: Hage \$45  En Avg age of Employee in ARC 45 years.	Null hypotheris  (Ho)  hypotheris  (Ha)  Ho will have  equality (igh-  organistron is atteast
Laim: Avg age of people in pw skills is 45 years.  Ho: Hag=45 Ha: Hage \$45  End Avg age of Employee in ABO 45 years.	Null hypotheris  (Ho)  hypotheris  (Ha)  Ho will have  equality (igh-  organistron is atteast
Laim: Avg age of beoble  In PW skills is 45 years.  Ho: Hag=45 Ha: Hage \$45  En Avg age of Employee in ARC 45 years.	Null hypotheris  (Ho)  Alternate  hypotheris  (Ha)  Ho will have  equality (igh-
Laim: Avg age of people in pw skills is 45 years.  Ho: Hag=45 Ha: Hage \$45  End Avg age of Employee in ABO 45 years.	Null hypotheris  (Ho)  hypotheris  (Ha)  Ho will have  equality (igh-  organistron is atteast

than 45 years + Aug age of employes 15 greater Hage & 45 Hage >45 Ho: will have equality Symbol. Ho: Mage 545 Hr: Hage 745. Avg age is greater than equals to 45 years Ho: Hage 7,45 Hailtage 245 Stef2 Statistical analysis (produe, significance level) Step 3 Conclusion to reject Ho or fail to reject Ho.