

Ig: - Lets say there are so class room in a university and you have Collected the ages of Students In I class home Ages = [21, 20, 18, 34, 17, 22, 24, 25, 26, 23, 22] Description old : But is the aug age of students in the class sooms The Polation ship bln Age and weight ? Inferential state: - Au the angage of the students in the classroom is los than one agrof the students in the chiversity. Type of Sampling: - Population [N] , sample (n) Desimple handom Lichnique: - lowy member of the population [ri] has an equal chance of bring selected for your sampleting of - txit Joll in election. General Durvey, Lottery: 2) Stratified Sampling: - Strata - Layer - Cluster - George Gender Tokenali Edi degree Frighthod Blood gry - B-W 9) systematic sampling: - both nth puson sampling is selected Eg: In Ariport: - CC sale mans solding 5th of 9th person to approach to buy GC select every non Endivioual out of population (N) 4) Convenience sampling: Only those who are interested in the survey will participate Ez : Data science survey ? - People who have knowledge of DS, will partiagation the survey.

guestions: - 1) July regarding new tulnology - Convincing dample. 2) RBJ servey for women - Stratifying sample 4 3) Calls from Cudit Coud - Steatsfied + Soundon sompling Variable: A variable is a property that can take any values. Egs:- age=14, age=24, tage=26. 1410 of variables 1) Quantitative Variable: - Measured numerically [Math operation] Eg: Age, wight, Height, Temp, Plessure, Distance 3) qualifative variable / Categorica variables: [ laved on some ] Eg: - Gendels, Type of Flower, Type of Cas. Quantitative Variable: Discete Variable? Continuous Valiable Eg- Whole number Eg:- Continuous 10 No of Banks a/c & Height, Weight, Ages, Rainfall.  $= \{1, 2, 3, 10\}$ 30 No of Children in School Assement: 1) what kind of variable is Malital states - qualitative variable Yanga live length - Continous Variable Movie length - Continous Variable Pincode - Discrete variable II - Continous Variable. Gender - Paralitative Variable