3 Tatogeo 1, 5 3, 1, 2000, List in Prolog - 3 commists of multiple elements. (atom).

All there elements can be atoms.

Climents inside the list age separated by comma.

List is denoted by [].

S10, S8, 56 ×==Y//× X==Y//x=== > Taple (Sugar, vice, bares) Sgrocesy-list of apple tonger, vice, bountill-12, 9-13 Head, tail notation (X) is the head of the list tal - land the trains first element of the 1:55 y = Brows, Aice, barrana

grocery_1:st[[apple, 8499, rice, barana]]. (2) Don't know the number of I know the number of reered, cerule neered, talent (elements elen enf ?-grocery_1867 ([w, x, 4, 2 2-grocery_1:5)-1[X Sur Dooley

Equality V/s Unification radius (x, 3) X = Ynether equality, not arrighted to confiation.

The phist of the confiation
Rules for unification can be wified or not Equality/unification among voriables · Uninstantiated variables teaches (newoj, cexyc?). ? - feaches (neeroj 1X). teacher (latit, cer4(2). ?- teacher (blit, Y) Y= cery(2

Rule 2 Unification among integers and ctoms ?- <u>cery c3</u> = <u>cery c3</u> Cen1(3 = 10 1 false integer Truston Prolog 2022 (AI (- cery(2) cery(3) Rule-based & stems System design Soft computing Alan Turing offeger Porteger

=) Quer'en (than's the whether, it's a su 1- Question (flows the whether, X X = Pt's a surry day.

verstication among Structures can be dedosed unifiable They have the same number of components.
Components should also be "
Components should also be " (b) They have the same functors.

plays (matt, Character (joey friends)) = plays (X, Wararter (Y, friends)) X = malt Y = jour !- anime (A, tyson) = anime(max, B). ?- rives (K.Y.2) = rivers (garga, youruma, maymada). ?- letter(X) = word(letter)

?-f(X,X) = f(10,20).

Equality in marioble

- veriors are always

- integers & sports are always

equal to one another

Tert ?- fact(5) Rawhion spack