Tuple & Sets :

Agenda :

- → Tuples
- → Tuples / lists
- → Sets
- → Use of sets

★ Tuples :

-> planets = ["Mercury", "Venus", "EarAh", "Mars", "Jupiter", "Saturn", "Uranus", "Neptune", "Pluto"]
0 1 2 3

-> planets [2] = "Rahul"

-> planets = ["Mercury", "Venus", "Rahul", "Mars", "Jupiter", "Saturn", "Uranus", "Neptune", "Pluto"]

★ **Frozen Data :** The data that doesn't change throughout the life cycle of a project is called frozen data.

★ In case of frozen data, it should be stored in immutable data structure.

★ **Tuples :** It is immutable data structure.

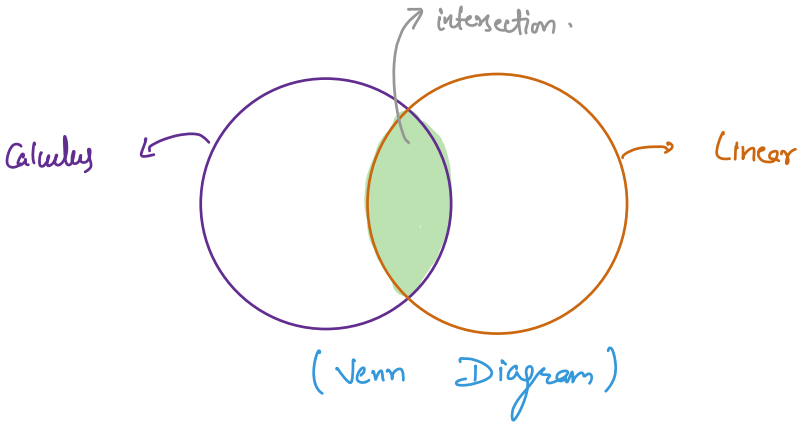
★ **Intersection :**

⇒ calculus = { "Shahzer", "Ritvik", "Mutthu", "Rahul" }

⇒ linear = { "Anjali", "Ritvik", "Aniket", "Rahul" }

★ The students who have enrolled in both the batches

★ calculus.intersection(linear) : "Rahul", "Ritvik"

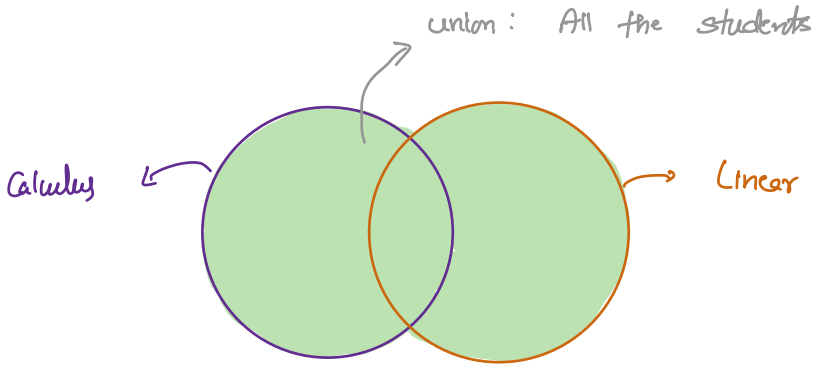


(Venn Diagram)

★ **Union :** All the students who have enrolled at Scaler

⇒ Calculus = { "Shahzer", "Ritvik", "Mutthu", "Rahul" }

⇒ Linear = { "Anjali", "Ritvik", "Aniket", "Rahul" }



⇒ Calculus.union(Linear) ⇒ All the students at scaler

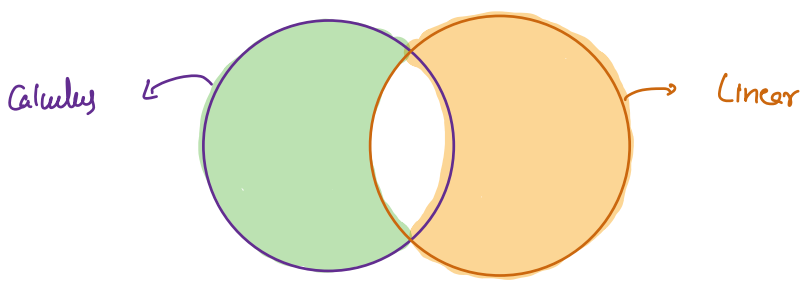
★ **Difference :** The objects present in set A but not in B.

⇒ **A - B** : Elements present in **set A** but not in **set B**.

⇒ **B - A** : Elements present in **set B** but not in **set A**.

⇒ Calculus = { "Shahzer", "Ritvik", "Mutthu", "Rahul" }

⇒ linear = { "Anjali", "Ritvik", "Aniket", "Rahul" }



★ Calculus - linear = "Shahzer", "Mutthu"

★ Linear - Calculus = "Anjali", "Aniket"