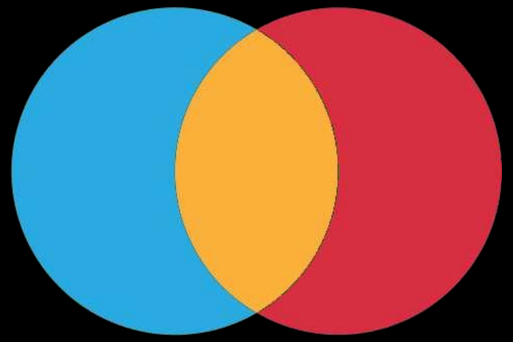
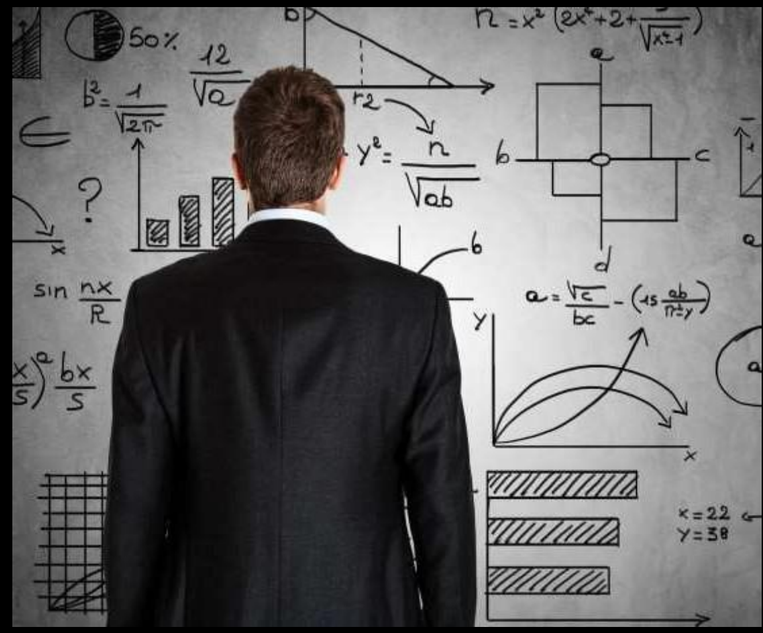


DISCRETE STRUCTURES

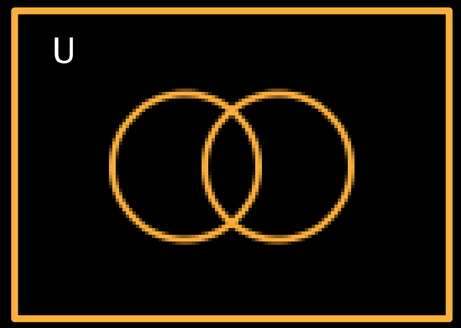


Topic | **Venn Diagram**

Venn Diagram:

A Venn diagram is a pictorial visual representation of sets and their relationships.

Explaination of venn Diagram:
In venn Diagram , universal sets is represented by rectrangle shape and sets are represented by circle.



Relations between sets:

Their are three types of relations between any two sets:-

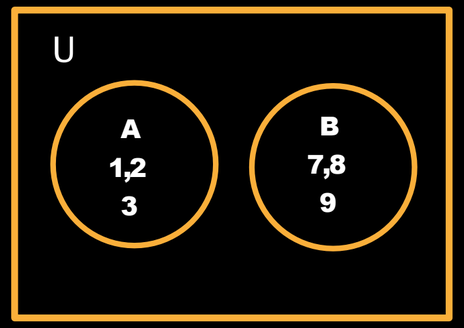
- Disjoint
- Overlaping
- Subsets

Disjoint sets:

Two or more sets with no common elements.

Example:

Set A={1,2,3} , Set B={7,8,9}

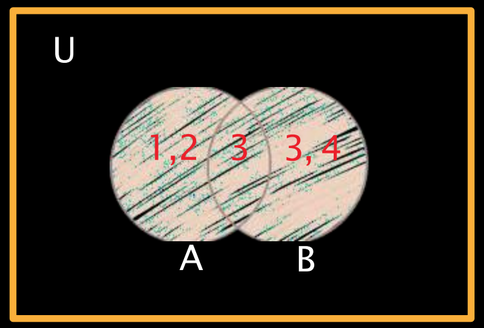


Overlapping Sets:

Two or more sets with same common elements.

Example:

Set A={1,2,3} , Set B={3,4}



Subsets:

A set contained within another set.

Example:

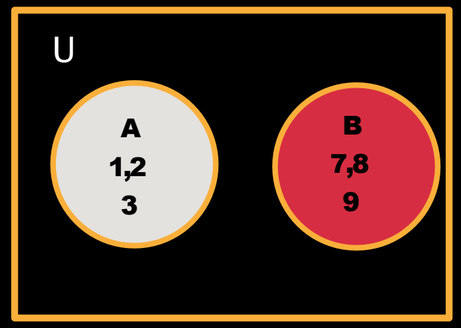
Set A={1,2,3,4} , Set B={2,3}

Union:

Union Operation on sets using Venn Diagram.

Example:

Set A={1,2,3} , Set B={7,8,9}

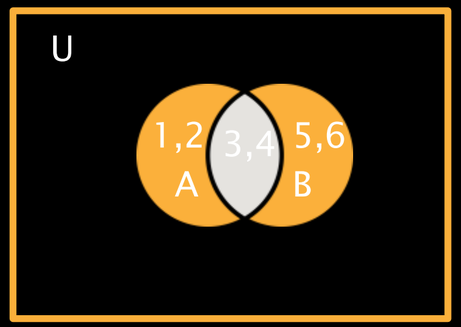


Intersection:

Intersection operation on sets using venn daigram:

Example:

Set A={1,2,3,4} , Set B={3,4,5,6}



Difference:

Difference Operation on sets using venn Daigram:

Example:

Set A={1,2,3,4,5}, SetB={3,4}

THANK YOU