**Day 7:**

**Collection Framework (Data structure):**

**Map** : it allow to store key-value pairs. Key is unique and value can be duplicate.

Map classes

HashMap : **unorder**

LinkedHash : **maintain the order**

TreeMap : Ascending order as key. So key must same data types values.

Hashtable : legacy class by default all methods are synchronized.

Collection framework with Generics

CollectionClass/CollectionInterface<Type> referenceName = new ClassName<Type>();

Type is Integer,Float, Double, Character, String, or any user defined object.

**Retrieve the data from collection framework**

**Set family :**

For each loop or enhanced loop

Iterator : it is a an interface which provide set of methods to retrieve the records one by one.

**List family** : for each loop or enhanced loop

Iterator : only forward direction

LiteratorIterator : forward as well as backward direction

**Map family :**

We can’t use for each loop or iterator or ListIterator

We need to convert to collection

We can convert to set and with help of iterator we can retrieve th value.