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Entry interface & HashMap class in Java

=> Entry :-

- → Entry is a one key-value pair in Map
- → Without Entry Map is always empty or we can say Map does not contain any key-value pair
- → Entry is an interface which is present in Map interface (or we can say that Entry is a subinterface of Map interface)
- → Syntax : interface Map

//methods

interface Entry

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- 1. Object getKey()
- 2. Object getValue()
- 3. Object setValue(Object obj)

=> HashMap :-

- → HashMap is a direct implemented class of Map interface which is present in java.util package
- → Syntax : public class HashMap extends AbstractMap implements Map, Cloneable, Serializable { - }
- → HashMap was introduced in JDK 1.2 version
- → The underline data structure of HashMap is "Hashtable"

→ Properties of HashMap

- 1. HashMap stores the values in key-value pair and each key-value pair is known as Entry
- 2. In HashMap, keys should always unique but values can be duplicate
- 3. HashMap can store hetrogeneous elements or different type of elements

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- 4. In HashMap keys we can store maximum one null value but in values we can store any number of null values
- HashMap does not follows the insertion order by default
- HashMap does not follows the sorting order by default
- 7. HashMap is non-synchronized Map because HashMap does not contain any synchronized methods
- HashMap allows more than one thread at one time
- 9. HashMap allows the parallel execution
- HashMap reduces the execution time which in turn makes our application fast
- 11. HashMap is not threadsafe
- 12. HashMap does not gurantee for data consistency

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-> Working of HashMap :-

- Whenever we create HashMap, its inital capacity is 16 elements
- 2. HashMap load factor is 75%
- → Constructors of HashMap :-
- 1. public HashMap()
- 2. public HashMap(int capacity)
- 3. public HashMap(int capacity, float loadFactor)
- 4. public HashMap(Map m)
- → Methods of HashMap :-
- = same methods as that of Map interface
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 - → When we should use HashMap:-
- HashMap is good for searching or retrival operations

- → How to get synchronized version of HashMap:-
- = By default HashMap is non-synchronized but if we want to get synchronized version of HashMap then we have to use synchronizedMap() method of Collections class

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