

Smart Programming : YouTube Channel

An investment in Knowledge pays the best interest....

**Smart Programming**
We Educate - We Develop

+91 62838-30308
Call us to Learn
Latest Technologies
City : Mohali (Punjab),
& Chandigarh
(India)

 **WEBSITE :** <http://www.smartprogramming.in>

 **BUY COURSES ON :** <https://courses.smartprogramming.in>

 **YOUTUBE CHANNEL :** Smart Programming (<https://www.youtube.com/c/SmartProgramming>)

 **ANDROID APP :** Smart Programming
(<https://play.google.com/store/apps/details?id=com.smartprogramming>)

 <https://www.facebook.com/smartprogramming.india>

 https://www.instagram.com/smart_programming



**LinkedHashMap, IdentityHashMap &
WeakHashMap class in Java**

=> LinkedHashMap :-

- ➔ LinkedHashMap is the child class of HashMap which is present in java.util package
- ➔ Syntax : public class LinkedHashMap extends HashMap implements Map { - }
- ➔ LinkedHashMap was introduced in JDK 1.4 version
- ➔ LinkedHashMap underline data structure is "Hashtable + LinkedList"

➔ Properties of LinkedHashMap :-

= LinkedHashMap has the same properties as that of HashMap but one difference is LinkedHashMap follows the insertion order

➔ Constructors of LinkedHashMap :-

= Same constructors as that of HashMap

➔ **Methods of LinkedHashMap :-**

= Same methods as that of HashMap

➔ **When we should use LinkedHashMap :-**

= If we have to create cache based applications then we can use LinkedHashMap

=> What is difference between HashMap & LinkedHashMap :-

1. HashMap was introduced in JDK 1.2 version
LinkedHashMap was introduced in JDK 1.4 version
2. HashMap does not follow the insertion order
LinkedHashMap follows the insertion order

3. HashMap underline data structure is "Hashtable"
LinkedHashMap underline data structure is
"Hashtable + LinkedList"
-

=> Difference between == & .equals() method :-

== is used for reference comparision or address comparision

equals() method is used for content comparision

=> IdentityHashMap :-

- ➔ IdentityHashMap is an implemented class of Map interface which is present in java.util package
- ➔ Syntax : public class IdentityHashMap extends AbstractMap implements Map, Serializable, Cloneable { - }
- ➔ IdentityHashMap was introduced in JDK 1.4 version
- ➔ **Properties, Constructors & Methods are same as HashMap**
- ➔ **Point to remember :-**
 1. Map does not contain duplicate keys but can contain duplicate values
 2. If we insert key-value pair in HashMap internally .equals method will be called and keys will be compared, if the value is true, it will treat as duplicate key and it will not insert that key

3. If we insert key-value pair in IdentityHashMap, then internally == operator will be called, and keys will be compared, if the value is true, then it will replace the value or if the value is false then it will insert that key-value pair

⇒ **Difference between HashMap & IdentityHashMap :-**

1. HashMap was introduced in JDK 1.2 version
IdentityHashMap was introduced in JDK 1.4 version
2. In case of HashMap to check for duplicate keys, internally .equals () method is called
In case of IdentityHashMap, to check for duplicate keys, internally == operator will be called

=> How to delete an object in java ?

➔ There are 2 steps to delete an object in java :-

1. Provide null value to the reference
2. Call gc() method

=> WeakHashMap :-

- ➔ WeakHashMap is a class which implements the Map interface
- ➔ Syntax : `Public class WeakHashMap extends AbstractMap implements Map { - }`
- ➔ WeakHashMap was introduced in JDK 1.2 version

→ Properties, Constructors and methods are same as HashMap

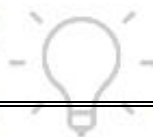
=> Difference between HashMap & WeakHashMap :-

1. HashMap does not allow the garbage collector to delete its elements

WeakHashMap allows the garbage collector to delete its elements

**Smart
Programming**

We Educate
We Develop



Company Links & Contacts

Company Name: Smart Programming (+91 62838-30308)

Address : Chandigarh & Mohali (Punjab), India

Websites: <https://www.smartprogramming.in/>
<https://courses.smartprogramming.in>

Android App:
<https://play.google.com/store/apps/details?id=com.smartprogramming>

YouTube Channel:
<https://www.youtube.com/c/SmartProgramming>