**Difference between HashMap and HashTable:**

HashMap and HashTable in java are two important data structures in the Collection Framework which have some common things between them. Both implement Map interface. Both store the data in the form of key-value pairs. Both use Hashing technique to store the elements. But, there also exist significant differences between them. One important difference being the thread safety. HashMap is not thread safe where as HashTable is thread safe. In this post, we will discuss the differences and similarities between HashMap Vs HashTable in java.

**Differences Between HashMap And HashTable In Java :**

**1) Thread Safe**

HashTable is internally synchronized. Therefore, it is very much safe to use HashTable in multi threaded applications. Where as HashMap is not internally synchronized. Therefore, it is not safe to use HashMap in multi threaded applications without external synchronization. You can externally synchronize HashMap using Collections.synchronizedMap() method.

**2) Inherited From**

Though both HashMap and HashTable implement Map interface, but they extend two different classes. HashMap extends AbstractMap class where as HashTable extends Dictionary class which is the legacy class in java.

**3) Null Keys And Null Values**

HashMap allows maximum one null key and any number of null values. Where as HashTable doesn’t allow even a single null key and null value.