```
import java.util.HashMap;
import java.util.IdentityHashMap;
import java.util.Map;

public class Test {

        public static void main(String[] args) {

                 // Creating HashMap and IdentityHashMap objects
        Map<String, Integer> hm = new HashMap<String, Integer>();
        Map<String, Integer> ihm = new IdentityHashMap<String, Integer>();

        // Putting key and value in HashMap and IdentityHashMap Object
        hm.put("Kishan",30);
        hm.put(new String("Kishan"),31);

        ihm.put("Sean",35);
        ihm.put(new String("Sean"),36);

        //hm.size() will print 1 since it compares the objects logically and both the keys are same
        System.out.println("Size of HashMap::"+hm.size());

        //ihm.size() will print 2 since it compares the objects by reference
        System.out.println("Size of IdentityHashMap::"+ihm.size());
        }
}
```

```
package com.hdfc.collections;

import java.util.HashMap;
import java.util.Map;

public class IdentityHashMap {

    public static void main(String[] args) {

        String s1 = "abc";
        String s2 = "abc";
        String s3 = new String("abc");

        // == for checking the reference
        //System.out.println(s1 == s2);
        //System.out.println(s1 == s3);//false

        //equals method is for content comparision
        //System.out.println(s1.equals(s2));
        //System.out.println(s1.equals(s3));


        //HashMap key using equals method for content comparison
        Map<String, String> hashMap = new HashMap<>();
        hashMap.put(s1, s1);
        hashMap.put(s2, s2);
        hashMap.put(s3, s3);

        System.out.println(hashMap.size());


        //IdentityHashMap key using == operator for content comparison
        Map<String, String> identityHashMap = new java.util.IdentityHashMap<>();
        identityHashMap.put(s1, s1);
        identityHashMap.put(s2, s2);
```

```
        identityHashMap.put(s3, s3);

        System.out.println(identityHashMap.size());
    }
}
```