```java
/**
* Q 1) Write an implementation of hash tables from scratch. Define the
* following methods: get(key), put( key, value ), remove(key), containsKey
* (key), and size().
*/


import java.util.Hashtable;
public class hashtable
{

public static void main(String[] args) {

Hashtable hashTable=new Hashtable<>();

//put(key,value)
hashTable.put(1,"Kaustubh");
hashTable.put(2,"Mahesh");
hashTable.put(3,"Angad");
hashTable.put(4,"Sagar");

//printing complete hashTable
System.out.println(hashTable);

//get(key) method

System.out.println(hashTable.get(1));

//remove(key)

hashTable.remove(3);
System.out.println(hashTable);

//contains(key)

System.out.println(hashTable.containsKey(3)); //false
System.out.println(hashTable.containsKey(1));//True

//size

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

P.T.O.

Output:

```
kaustubh@kaustubh-Desktop:redhat.java/jdt_ws/assignment
no6_12d2fe1d/bin" hashtable


{1=Kaustubh, 2=Mahesh, 3=Angad, 4=Sagar}
Kaustubh
{1=Kaustubh, 2=Mahesh, 4=Sagar}
false
true
3
```