```
* 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.HashMap;
public class hashtable
public static void main(String[] args) {
HashMap hashMap=new HashMap<>();
//put(key,value)
hashMap.put(1,"Kaustubh");
hashMap.put(2,"Mahesh");
hashMap.put(3,"Angad");
hashMap.put(4,"Sagar");
//printing complete HashMap
System.out.println(hashMap);
//get(key) method
System.out.println(hashMap.get(1));
//remove(key)
hashMap.remove(3);
System.out.println(hashMap);
//contains(key)
System.out.println(hashMap.containsKey(3)); //false
System.out.println(hashMap.containsKey(1));//True
//size
System.out.println(hashMap.size());
}
```

```
P.T.O.
```

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## 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
```