Additional Operations on HashMap

Checking if a key is present in the HashMap

We can use the `containsKey(Object key)` method to check if a given key is present in the **HashMap**. This method returns `true` if the key is present and returns `false` if the key is not present. Similarly, we have a `containsValue(Object value)` method that returns true if one or more keys are mapped to this value.

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

public class HashMapDemo {

    public static void main(String args[]) {

        Map<String, Integer> stockPrice = new HashMap<>();

        stockPrice.put("Oracle", 56);
        stockPrice.put("Fiserv", 117);
        stockPrice.put("BMW", 73);
        stockPrice.put("Microsoft", 213);

        System.out.println(stockPrice.containsKey("Oracle"));

        System.out.println(stockPrice.containsValue(73));
    }
}
```

Run   Save   Reset

Fetching all the keys from HashMap

If we need to fetch all the keys that are stored in a **HashMap**, then we can use the `keySet()` method. This method returns a Set containing all the keys present in the Map.

Fetching all the values from HashMap

If we need to fetch all the values stored in a **HashMap**, we can use the `values()` method. This method returns a Collection containing all the values present in the Map.

```java
import java.util.Collection;
import java.util.HashMap;
import java.util.Map;
import java.util.Set;

public class HashMapDemo {

    public static void main(String args[]) {

        Map<String, Integer> stockPrice = new HashMap<>();

        stockPrice.put("Oracle", 56);
        stockPrice.put("Fiserv", 117);
        stockPrice.put("BMW", 73);
        stockPrice.put("Microsoft", 213);

        System.out.println("HashMap Keys");
        Set<String> keys = stockPrice.keySet();
        for(String key : keys) {
            System.out.println(key);
        }

        System.out.println("HashMap Values");
        Collection<Integer> values = stockPrice.values();
        for(Integer value : values) {
            System.out.println(value);
        }
    }
}
```

Run   Save   Reset

Checking if the HashMap is empty

We can check if the **HashMap** is empty using the `isEmpty()` method. This method returns `true` if the Map does not have any elements and returns `false` if the Map has some elements.

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

public class HashMapDemo {
    public static void main(String args[]) {
        Map<String, Integer> map = new HashMap<>();

        map.put("abc", 23);
        map.put("def", 34);
        map.put("ghi", 56);

        System.out.println(map.isEmpty());
    }
}
```

Run   Save   Reset