

Varsha M CSE

1. Write a Java program to associate the specified value with the specified key in a HashMap.

Program:

```
import java.util.HashMap;

public class HashMapExample {
    public static void main(String[] args) {
        // Create a new HashMap
        HashMap<String, Integer> hashMap = new HashMap<>();

        // Add key-value pairs to the HashMap
        hashMap.put("key1", 100);
        hashMap.put("key2", 200);
        hashMap.put("key3", 300);

        // Print the HashMap
        System.out.println("HashMap: " + hashMap);
    }
}
```

2. Write a Java program to check whether a HashMap contains key-value mappings (empty) or not.

Program:

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



```
public class HashMapCheckEmpty {  
    public static void main(String[] args) {  
        // Create a new HashMap  
        HashMap<String, Integer> hashMap = new HashMap<>();  
  
        // Check if the HashMap is empty  
        if (hashMap.isEmpty()) {  
            System.out.println("HashMap is empty.");  
        } else {  
            System.out.println("HashMap is not empty.");  
        }  
  
        // Add key-value pairs to the HashMap  
        hashMap.put("key1", 100);  
        hashMap.put("key2", 200);  
  
        // Check again if the HashMap is empty  
        if (hashMap.isEmpty()) {  
            System.out.println("HashMap is empty.");  
        } else {  
            System.out.println("HashMap is not empty.");  
        }  
    }  
}
```



3.write a program in Java to create a Map Interface where we can store the cricketer name in it along with his scores and search for the batsman name and display his score.

Program:

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

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

```
public class CricketerScores {  
    public static void main(String[] args) {  
        // Create a Map to store cricketer names and scores  
        Map<String, Integer> cricketerScores = new HashMap<>();  
  
        // Add cricketer names and scores to the map  
        cricketerScores.put("Sachin Tendulkar", 18426);  
        cricketerScores.put("Virat Kohli", 12169);  
        cricketerScores.put("Ricky Ponting", 13378);  
        cricketerScores.put("Brian Lara", 11953);  
  
        // Search for a batsman's name and display his score  
        String batsmanName = "Virat Kohli";  
        if (cricketerScores.containsKey(batsmanName)) {  
            int score = cricketerScores.get(batsmanName);  
            System.out.println(batsmanName + "'s score is: " + score);  
        } else {  
            System.out.println("Batsman not found in the records.");  
        }  
    }  
}
```



}



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