TASK - 3

1. Write a Java program to associate the specified value with the specified key in a HashMap. **SOLUTION:** import java.util.HashMap; public class HashMapExample { public static void main(String[] args) { HashMap<String, Integer> myMap = new HashMap<>(); myMap.put("Apple", 5); myMap.put("Banana", 3); myMap.put("Orange", 7); System.out.println(myMap); } } **OUTPUT**: {Apple=5, Orange=7, Banana=3} 2. Write a Java program to check whether a HashMap contains key-value mappings (empty) or not. SOLUTION: import java.util.HashMap; public class HashMapIsEmpty { public static void main(String[] args) { HashMap<String, Integer> myMap = new HashMap<>(); System.out.println("Map is empty: " + myMap.isEmpty()); myMap.put("Apple", 5); myMap.put("Banana", 3); System.out.println("Map is empty: " + myMap.isEmpty());

```
myMap.clear();
       System.out.println("Map is empty: " + myMap.isEmpty());
    }
  }
  OUTPUT:
  Map is empty: true
  Map is empty: false
  Map is empty: true
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.
  SOLUTION:
  import java.util.HashMap;
  import java.util.Scanner;
  public class CricketerScores {
     public static void main(String[] args) {
       HashMap<String, Integer> scores = new HashMap<>();
       Scanner scanner = new Scanner(System.in);
       while (true) {
          System.out.print("Enter cricketer name (or 'done' to finish): ");
          String name = scanner.nextLine();
          if (name.equalsIgnoreCase("done")) {
            break;
          System.out.print("Enter score: ");
          int score = scanner.nextInt();
          scores.put(name, score);
          scanner.nextLine();
       System.out.print("Enter batsman name to search: ");
       String searchName = scanner.nextLine();
```

VR scored 101 runs.