DAY -3 TASK

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

Sol:

```
import java.util.HashMap;


public class HashMapEg
{
   public static void main(String[] args)
 {
   Map<String, Integer> hashMap = new HashMap<>();
      hashMap.put("no1", 10);
      hashMap.put("no2", 20);
      hashMap.put("no3", 30);
      System.out.println("Original HashMap: " + hashMap);
      String specifiedno = "no4";
      int specifiedValue = 40;


      hashMap.put(specifiedno, specifiedValue);


      System.out.println("HashMap after associating value with no: " + hashMap);
   }
}
```

o/p

Original HashMap: {no1=10, no2=20, no3=30}

HashMap after associating value with no: {no1=10, no2=20, no3=30, no4=40}

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

Sol:

```
import java.util.HashMap;
public class CheckEmpty
{
   public static void main(String[] args)
{
        Map<String, Integer> emptyHashMap = new HashMap<>();
        if (emptyHashMap.isEmpty())
{
          System.out.println("The HashMap is empty.");
      }
 else {
          System.out.println("The HashMap is not empty.");
      }
      Map<String, Integer> nonEmptyHashMap = new HashMap<>();
      nonEmptyHashMap.put("Key1", 10);
      nonEmptyHashMap.put("Key2", 20);
      if (nonEmptyHashMap.isEmpty()) {
         System.out.println("The non-empty HashMap is empty.");
      }
```

```
else {
        System.out.println("The non-empty HashMap is not empty.");
    }
  }
}
```

o/p

The HashMap is empty.

The non-empty 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.

Sol:

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

public class CricketerScores
 {
   public static void main(String[] args)
{

      Map<String, Integer> cricketScores = new HashMap<>();
      cricketScores.put("Ravindea Jadeja", 115);
      cricketScores.put("M'S Dhoni", 132);
      cricketScores.put("Ben Stokes", 80);

      Scanner scanner = new Scanner(System.in);
```

```
        System.out.print("Enter the batsman's name to search: ");
        String batsmanName = scanner.nextLine();

        Integer batsmanScore = cricketScores.get(batsmanName);

        if (batsmanScore != null)
{
            System.out.println("Score of " + batsmanName + ": " + batsmanScore);
        }
else {
            System.out.println("Batsman not found in the records.");
        }

        scanner.close();
    }
}
```

o/p

```
Enter the batsman's name to search: Ravindra  Jadeja
Score of Ravindra  Jadeja : 115
```