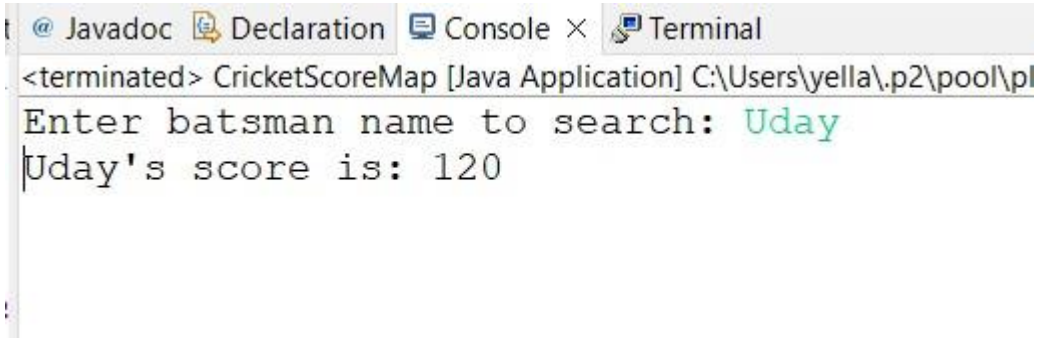
**LAB_ANP_C6339_CLASSES_ StudenID:AF0339439**

**Assignment-1**. 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. [Hint:use containsKey() method to search batsman name]

**Program:**

```
package Collections;
    import java.util.HashMap;
    import java.util.Map;
    import java.util.Scanner;

    public class CricketScoreMap {
        public static void main(String[] args) {
            // Create a Map to store cricketer names and scores
            Map<String, Integer> cricketScoreMap = new
HashMap<>();

            // Add some sample data
            cricketScoreMap.put("Uday", 120);
            cricketScoreMap.put("Kiran", 80);
            cricketScoreMap.put("Bunny", 50);
            cricketScoreMap.put("Sai", 100);

            // Scanner to take input from the user
            Scanner scanner = new Scanner(System.in);


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


            if (cricketScoreMap.containsKey(batsmanName)) {

                int score = cricketScoreMap.get(batsmanName);
                System.out.println(batsmanName + "'s score is: " +
score);
            } else {

                System.out.println("Batsman not found in the
records.");
            }


        }
    }
```

**Output:**



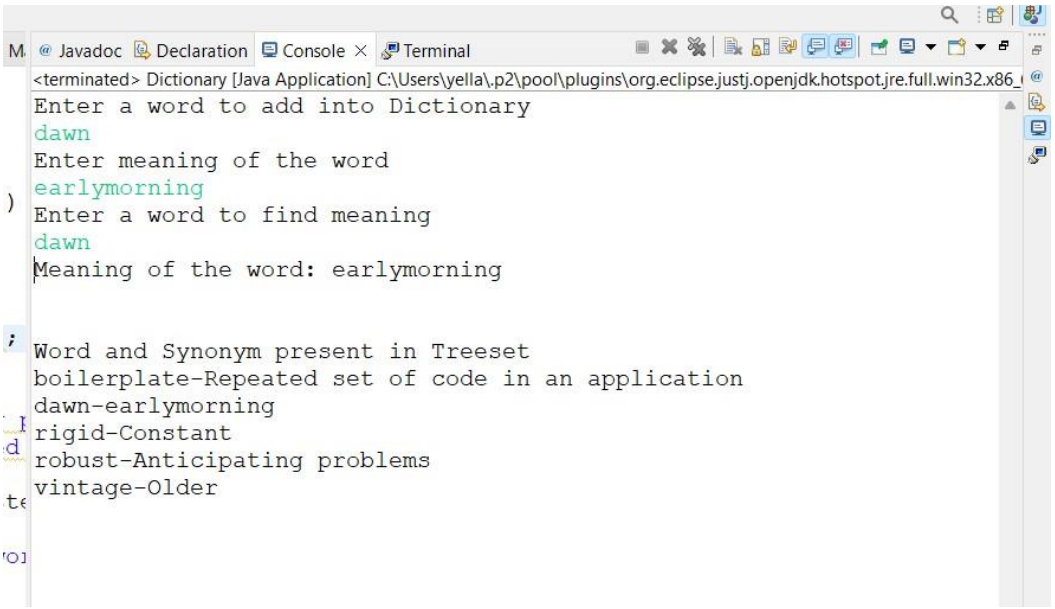

**Assignment 2 :** Write a Java program that demonstrates the functionality of this dictionary application using a TreeMap. Your program should include the following features: i)A TreeMap named dictionary to store word-definition pairs. ii)A way to input word-definition pairs and add them to the dictionary. iii)A way to retrieve and display the definition of a specific word. iv)An iteration through the dictionary to display all word-definition pairs in alphabetical order based on words

Program:

```
package Collections;


import java.util.Iterator;
import java.util.Map;
import java.util.Scanner;
import java.util.Set;
import java.util.TreeMap;

public class Dictionary {

    public static void main(String argv[])
    {
            TreeMap hm = new TreeMap();

//put(String key, Object value)
            hm.put("dawn","earlymorning");
            hm.put("rigid","Constant");
            hm.put("vintage","Older");
            hm.put("robust","Anticipating problems");
```

```
     hm.put("boilerplate","Repeated set of code in an
application");

             Scanner obj = new Scanner(System.in);

             System.out.println("Enter a word to add into
Dictionary");
             String word = obj.next();
             System.out.println("Enter meaning of the word");
             String meaning = obj.next();

             hm.put(word, meaning);

             System.out.println("Enter a word to find meaning");
             word = obj.next();

             if(hm.containsKey(word))
             {
               System.out.println("Meaning of the word: " +
hm.get(word));
             }
             else
             {
               System.out.println("Searching word not present in
the dictionary...");
             }

             Set s = hm.entrySet();


             Iterator it = s.iterator();

             System.out.println("\n\nWord and Synonym present in
Treeset");
             while (it.hasNext())
             {
                     Map.Entry me = (Map.Entry) it.next();

                     System.out.println(me.getKey() + "-" +
me.getValue());
                     }
             }

}
```

## Output:


Javadoc
Declaration
Console
Terminal
<terminated> Dictionary [Java Application] C:\Users\yella\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_
Enter a word to add into Dictionary
dawn
Enter meaning of the word
earlymorning
Enter a word to find meaning
dawn
Meaning of the word: earlymorning
Word and Synonym present in Treeset
boilerplate-Repeated set of code in an application
dawn-earlymorning
rigid-Constant
robust-Anticipating problems
vintage-Older