Name of the Course : Complete Java SE8 Developer Bootcamp

Level : Easy

Tool Stack: Java 8

Problem Statement : Provide a code solution to find the sum of the first n fibonacci numbers.

Provide code to achieve the desired output.

Sample Input : 5

Sample Output : 7 [0 1 1 2 3]

Description : Create class Fibonacci with following methods .

1.Public static void main(String arg[])for accepting user input and invokes methods getFibonacciSum(int n)

2. public static getFibonacciSum(int n)which calculates the sum of first n fibonacci numbers

Code:

import java.util.Iterator;

import java.util.LinkedHashSet;

import java.util.Scanner;

public class DuplicateWordRemoval {

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

String ss = s.nextLine();

System.out.println(removeDuplicates(ss));

}

public static String removeDuplicates(String s) {

String words[] = s.split(" ");

StringBuffer sb = new StringBuffer();

LinkedHashSet<String> lh = new LinkedHashSet<String>();

for (int i = 0; i < words.length; i++)

lh.add(words[i]);

Iterator<String> itr = lh.iterator();

while (itr.hasNext()) {

String c = itr.next();

sb.append(c);

sb.append(" ");

}

return sb.toString().trim();

}

}

Junit Testing

**import** **static** org.junit.Assert.*assertEquals*;

**import** org.junit.Test;

**import** handson.DuplicateWord;

**public** **class** TestDuplicateWord {

@Test

**public** **void** testDuplicateWordRemoval() {

*assertEquals*("world is beautiful" ,DuplicateWord.*removeDuplicates*("world is beautiful is"));

*assertEquals*("king rama is" ,DuplicateWord.*removeDuplicates*("king rama is king"));

}

}

Test Data1

Sample input:

5

sample output:

7

Test Data2

sample input :

7

sample output :

20 [0 1 1 2 3 5 8 ]

Learning outcome: Participant could able to learn how to use loops.