

/* Saket Bakshi. Mr. Caces. AP Computer Science A. Due 13 November 2018.

This class takes hyphenated concatenations from ICAO and converts them to Strings.

*/

public class ICAODecoderLabP6BakshiSaket

{

 //instance variables

 private String input;

 private String output;

 /** This class takes ICAO words and converts them to Strings.

 @param input the input line

 */

 public ICAODecoderLabP6BakshiSaket(String input)

 {

 this.input = input;

 this.output = "";

 }

 /** returns the input about to be translated

 @return the input String

 */

 public String getInput()

 {

 return this.input;

 }

 /** Creates the output String from ICAO form

 */

 public void runThroughInput()

 {

 String loweredInput = this.input.toLowerCase(); //takes the input and makes it lowercase

 String array1[] = loweredInput.split(" "); //splits individual words of the input

 for(String temp: array1) //makes a loop for each word in the input

 {

 String array2[] = temp.split("-"); //makes a loop for each letter in each word

 for(String temp2: array2)

 {

 if(temp2.equals("alpha"))

 this.output = this.output + "A";

 else if(temp2.equals("bravo"))

```
        this.output = this.output + "B";
    else if(temp2.equals("charlie"))
        this.output = this.output + "C";
    else if(temp2.equals("delta"))
        this.output = this.output + "D";
    else if(temp2.equals("echo"))
        this.output = this.output + "E";
    else if(temp2.equals("foxtrot"))
        this.output = this.output + "F";
    else if(temp2.equals("golf"))
        this.output = this.output + "G";
    else if(temp2.equals("hotel"))
        this.output = this.output + "H";
    else if(temp2.equals("india"))
        this.output = this.output + "I";
    else if(temp2.equals("juliet"))
        this.output = this.output + "J";
    else if(temp2.equals("kilo"))
        this.output = this.output + "K";
    else if(temp2.equals("lima"))
        this.output = this.output + "L";
    else if(temp2.equals("mike"))
        this.output = this.output + "M";
    else if(temp2.equals("november"))
        this.output = this.output + "N";
    else if(temp2.equals("oscar"))
        this.output = this.output + "O";
    else if(temp2.equals("papa"))
        this.output = this.output + "P";
    else if(temp2.equals("quebec"))
        this.output = this.output + "Q";
    else if(temp2.equals("romeo"))
        this.output = this.output + "R";
    else if(temp2.equals("sierra"))
        this.output = this.output + "S";
    else if(temp2.equals("tango"))
        this.output = this.output + "T";
    else if(temp2.equals("uniform"))
        this.output = this.output + "U";
    else if(temp2.equals("victor"))
        this.output = this.output + "V";
    else if(temp2.equals("whiskey"))
        this.output = this.output + "W";
```

```

        else if(temp2.equals("xray"))
            this.output = this.output + "X";
        else if(temp2.equals("yankee"))
            this.output = this.output + "Y";
        else if(temp2.equals("zulu"))
            this.output = this.output + "Z"; //recognizes words in ICAO
form and converts to letters
    }

    this.output = this.output + " "; //adds spaces between words
}
this.output = this.output.substring(0, this.output.length() - 1); //removes the last
space
}

/** Returns the output String
@return the output String
*/
public String getOutput()
{
    return this.output;
}
}

```

/* Saket Bakshi. Mr. Caces. AP Computer Science A. Due 13 November 2018.

This class tests the ICAO decoder class

*/

import java.util.Scanner;

import java.io.File;

import java.io.FileNotFoundException;

public class ICAODecoderLabTester

{

public static void main(String[] args) throws FileNotFoundException

{

//scans in file

File inputFile = new File("input.txt");

Scanner inputScanner = new Scanner(inputFile);

//takes the amount of Strings to convert

String firstLine = inputScanner.nextLine();

int testCases = Integer.parseInt(firstLine);

```

//converts all the ICAO Strings
for(int i = testCases; i > 0; i--)
{
    ICAODecoderLabP6BakshiSaket icao = new
ICAODecoderLabP6BakshiSaket(inputScanner.nextLine());

    icao.runThroughInput();

    System.out.println(icao.getOutput()); //prints out the Strings
}
}
}

```

DASHBOARD > APCS-A-2018-P6 > ICAO DECODER

PROJECTS

ICAO Decoder

SAKET BAKSHI

Help / Docs

Password Change

Logout

ICAO Decoder

Given an ICAO Encoded Message convert to your standard message. Example input: 1 Alpha-Bravo-Charlie Delta-Echo-Foxtrot
output: ABC DEF

[Test Case](#) [Test Case 2](#)

Console

```

1 THE WORLD IS A BEAUTIFUL PLACE
2 PACK MY BOX WITH FIVE DOZEN LIQUOR JUGS
3 THE QUICK BROWN FOX JUMPS OVER A LAZY DOG
4 HERE WE GO AGAIN
5 GOODBYE AND HELLO
6

```

Input Files
[input.txt](#)

Help

Java 8

Drag and drop
or
browse

✓ You passed 2 of 2 test cases

✓ Passed

✓ Test Case ✓ Test Case 2

```

PS C:\Users\saket\JAVA\Labs\ICAODecoderLabP6BakshiSaket> java Main
THE WORLD IS A BEAUTIFUL PLACE
PACK MY BOX WITH FIVE DOZEN LIQUOR JUGS
THE QUICK BROWN FOX JUMPS OVER A LAZY DOG
HERE WE GO AGAIN
GOODBYE AND HELLO
PS C:\Users\saket\JAVA\Labs\ICAODecoderLabP6BakshiSaket>

```