

/\* Saket Bakshi. Mr. Caces. AP Computer Science A. Due 23 October 2018.

This class takes Strings as objects and converts them to hyphenated concatenations in compliance with ICAO.

\*/

public class ICAOTranslatorLab

{

    //instance variables

    private String input;

    private String output;

    /\*\* This class takes strings and converts them to ICAO words, disregarding punctuation.

    @param input the input line

    \*/

    public ICAOTranslatorLab(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 in ICAO form

    \*/

    public void runThroughInput()

    {

        String tempInput = this.input.toLowerCase();

        //System.out.println(tempInput);

        String character = tempInput.substring(0, 1);

        //System.out.println(character);

        if(character.equals("a"))

            this.output = this.output + "Alpha";

        else if(character.equals("b"))

            this.output = this.output + "Bravo";

        else if(character.equals("c"))

            this.output = this.output + "Charlie";

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else if(character.equals("d"))
    this.output = this.output + "Delta";
else if(character.equals("e"))
    this.output = this.output + "Echo";
else if(character.equals("f"))
    this.output = this.output + "Foxtrot";
else if(character.equals("g"))
    this.output = this.output + "Golf";
else if(character.equals("h"))
    this.output = this.output + "Hotel";
else if(character.equals("i"))
    this.output = this.output + "India";
else if(character.equals("j"))
    this.output = this.output + "Juliet";
else if(character.equals("k"))
    this.output = this.output + "Kilo";
else if(character.equals("l"))
    this.output = this.output + "Lima";
else if(character.equals("m"))
    this.output = this.output + "Mike";
else if(character.equals("n"))
    this.output = this.output + "November";
else if(character.equals("o"))
    this.output = this.output + "Oscar";
else if(character.equals("p"))
    this.output = this.output + "Papa";
else if(character.equals("q"))
    this.output = this.output + "Quebec";
else if(character.equals("r"))
    this.output = this.output + "Romeo";
else if(character.equals("s"))
    this.output = this.output + "Sierra";
else if(character.equals("t"))
    this.output = this.output + "Tango";
else if(character.equals("u"))
    this.output = this.output + "Uniform";
else if(character.equals("v"))
    this.output = this.output + "Victor";
else if(character.equals("w"))
    this.output = this.output + "Whiskey";
else if(character.equals("x"))
    this.output = this.output + "Xray";
else if(character.equals("y"))
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        this.output = this.output + "Yankee";
    else(character.equals("z"))
        this.output = this.output + "Zulu";

for(int i = 1; i < this.input.length(); i++)
{
    character = templInput.substring(i, i + 1);

    if(character.equals("a"))
        this.output = this.output + "-" + "Alpha";
    else if(character.equals("b"))
        this.output = this.output + "-" + "Bravo";
    else if(character.equals("c"))
        this.output = this.output + "-" + "Charlie";
    else if(character.equals("d"))
        this.output = this.output + "-" + "Delta";
    else if(character.equals("e"))
        this.output = this.output + "-" + "Echo";
    else if(character.equals("f"))
        this.output = this.output + "-" + "Foxtrot";
    else if(character.equals("g"))
        this.output = this.output + "-" + "Golf";
    else if(character.equals("h"))
        this.output = this.output + "-" + "Hotel";
    else if(character.equals("i"))
        this.output = this.output + "-" + "India";
    else if(character.equals("j"))
        this.output = this.output + "-" + "Juliet";
    else if(character.equals("k"))
        this.output = this.output + "-" + "Kilo";
    else if(character.equals("l"))
        this.output = this.output + "-" + "Lima";
    else if(character.equals("m"))
        this.output = this.output + "-" + "Mike";
    else if(character.equals("n"))
        this.output = this.output + "-" + "November";
    else if(character.equals("o"))
        this.output = this.output + "-" + "Oscar";
    else if(character.equals("p"))
        this.output = this.output + "-" + "Papa";
    else if(character.equals("q"))
        this.output = this.output + "-" + "Quebec";
    else if(character.equals("r"))

```

```

        this.output = this.output + "-" + "Romeo";
    else if(character.equals("s"))
        this.output = this.output + "-" + "Sierra";
    else if(character.equals("t"))
        this.output = this.output + "-" + "Tango";
    else if(character.equals("u"))
        this.output = this.output + "-" + "Uniform";
    else if(character.equals("v"))
        this.output = this.output + "-" + "Victor";
    else if(character.equals("w"))
        this.output = this.output + "-" + "Whiskey";
    else if(character.equals("x"))
        this.output = this.output + "-" + "Xray";
    else if(character.equals("y"))
        this.output = this.output + "-" + "Yankee";
    else(character.equals("z"))
        this.output = this.output + "-" + "Zulu";

    }
}

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

/* Saket Bakshi. Mr. Caces. AP Computer Science A. Due 23 October 2018.
This class tests the ICAO translator class
*/
import java.util.Scanner;
import java.io.File;
import java.io.FileNotFoundException;

public class ICAOTranslatorLabTester
{
    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 Strings
for(int i = testCases; i > 0; i--)
{
    ICAOTranslatorLab icao = new
ICAOTranslatorLab(inputScanner.nextLine());

    icao.runThroughInput();

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

```

**AutoGradr**

DASHBOARD > APCS-A 2018-P6 > ICAO CONVERTER

PROJECTS

ICAO converter

SAKET BAKSHI

Help / Docs

Password Change

Logout

ICAO converter

Look at Canvas for full assignment.

[Test Case 1](#) [Test Case 2](#)

Console

```

1 | Lima-Echo-India-Golf-Hotel-Romeo-Oscar-Charlie-Kilo-Sierra
2 | Alpha-Bravo-Charlie-Delta-Echo-Foxtrot-Golf-Hotel-India-Juliet-Kilo-Lima-Mike-November-Oscar-Papa-Quebec-Romeo-Sierra-Tango-Uniform-Victor-Whiskey-Xray-Yankee-Zulu
3 |

```

Input Files

[input.txt](#)

Help

Java 8

Drag and drop or [browse](#)

✓ You passed 2 of 2 test cases

✓ Passed

✓ [Test Case 1](#) ✓ [Test Case 2](#)

```

PS C:\Users\saket\JAVA\Labs\ICAOTranslatorLab> java ICAOTranslatorLabTester
Lima-Echo-India-Golf-Hotel-Romeo-Oscar-Charlie-Kilo-Sierra
Alpha-Beta-Charlie-Delta-Echo-Foxtrot-Golf-Hotel-India-Juliet-Kilo-Lima-Mike-November-Oscar-Papa-Quebec-Romeo-Sierra-Tango-Uniform-Vic
tor-Whiskey-Xray-Yankee-Zulu
PS C:\Users\saket\JAVA\Labs\ICAOTranslatorLab>

```