### **Question 1 [10 Points]**

Suppose, you work for a cafe called "One Word Snacks," where only snacks with **one-word** names are sold. You will be given an order list as a String, where one or more snack names are separated by commas. However, the operator sometimes makes mistakes while typing the orders due to having a faulty keyboard.

Your task is to write a Java program that takes the order string as input and corrects the following mistakes:

* The first letter of each word is not capitalized.
* Random letters (other than the first letter of each word) are in uppercase.
* Words are divided by any symbol other than commas. If you find any symbol other than a comma, it should be converted to a comma.

[Note: You are only allowed to use the built-in length(), charAt() and codePointAt() method to solve this problem.]

| **Sample Input** | **Sample Output** |
| --- | --- |
| Enter your order: pizza,cOOkIe,PASTA-shawarma | Pizza,Cookie,Pasta,Shawarma |
| Enter your order: muFFIn+TacO3doNuT-Fries,piE | Muffin,Taco,Donut,Fries,Pie |

Tentative Solution:

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter your order: ");

String s1 = sc.nextLine();

String ans = "";

boolean upper = true;

for (int i = 0; i < s1.length(); i++) {

char ch = s1.charAt(i);

if (ch >= 'A' && ch <= 'Z' || ch >= 'a' && ch <= 'z') {

if (upper) {

if (ch >= 'a' && ch <= 'z') {

ans += (char) (ch - 32);

} else {

ans += ch;

}

upper = false;

}

else {

if (ch >= 'A' && ch <= 'Z') {

ans += (char) (ch + 32);

} else {

ans += ch;

}

}

}

else {

ans += ',';

upper = true;

}

}

System.out.println(ans);

}

}

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