

Assignment: Write a program to accept string and change the case of each letter of the string. display the new string

eg:

Welcome to Java

O/P: WELCOME TO JAVA

Program:1

```
import java.util.Scanner;

public class StringChangeCase {

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.println("Enter a string:");
        String input = scanner.nextLine();

        String result = changeCase(input);

        System.out.println("Output: " + result);
    }

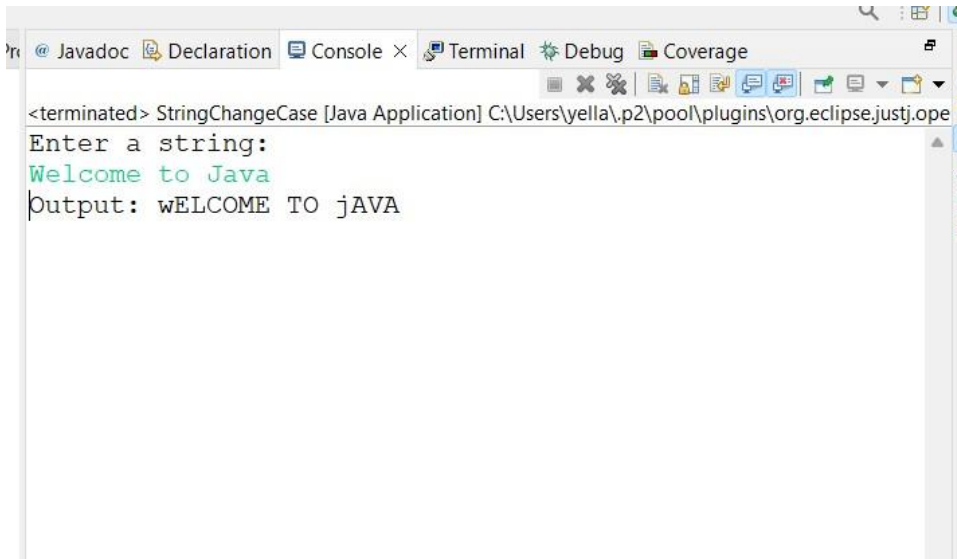
    private static String changeCase(String input) {
        char[] characters = input.toCharArray();

        for (int i = 0; i < characters.length; i++) {
            char currentChar = characters[i];

            if (Character.isUpperCase(currentChar)) {
                characters[i] = Character.toLowerCase(currentChar);
            } else if (Character.isLowerCase(currentChar)) {
                characters[i] = Character.toUpperCase(currentChar);
            }
        }

        return new String(characters);
    }
}
```

Output:



```
<terminated> StringChangeCase [Java Application] C:\Users\yella\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64.jre\bin\java.exe
Enter a string:
Welcome to Java
Output: wELCOME TO jAVA
```

Assignment 2 : Read a string and replace only vowels with a specific letter to perform encoding operation.

eg: computer

encoding : cpmptpr

Program:

```
import java.util.Scanner;
public class Vowels {

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        System.out.println("Enter a string:");
        String input = scanner.nextLine();

        System.out.println("Enter the replacement letter for vowels:");
        char replacementLetter = scanner.next().charAt(0);

        String encodedString = encodeString(input, replacementLetter);
    }
}
```

```

        System.out.println("Encoded string: " + encodedString);
    }

    private static String encodeString(String input, char
replacementLetter) {
        StringBuilder encodedStringBuilder = new StringBuilder();

        for (int i = 0; i < input.length(); i++) {
            char currentChar = input.charAt(i);

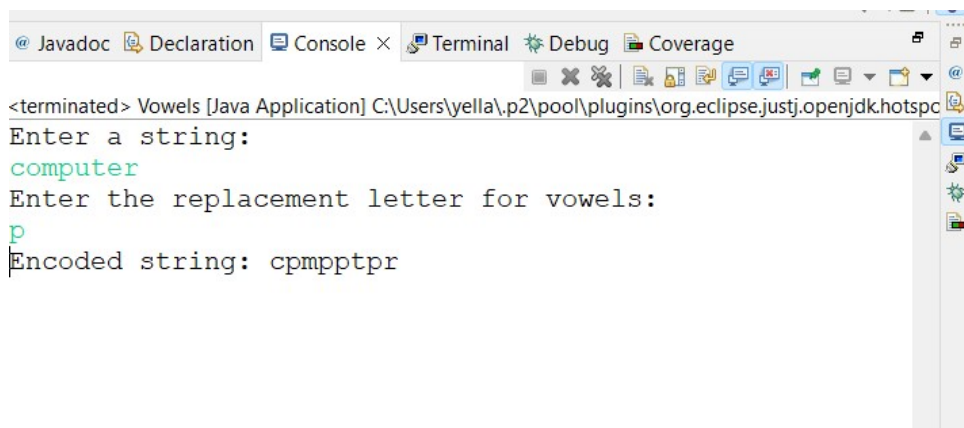
            if (isVowel(currentChar)) {
                encodedStringBuilder.append(replacementLetter);
            } else {
                encodedStringBuilder.append(currentChar);
            }
        }

        return encodedStringBuilder.toString();
    }

    private static boolean isVowel(char c) {
        return "aeiouAEIOU".indexOf(c) != -1;
    }
}

```

Output:



```

@ Javadoc Declaration Console x Terminal Debug Coverage
<terminated> Vowels [Java Application] C:\Users\yella\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspc
Enter a string:
computer
Enter the replacement letter for vowels:
p
Encoded string: cpmptpr

```