

## Lab 21 – Assignment

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1) 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

```
package com.wrapperclass.examples;
import java.util.*;
public class ChangeCase {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        // Input string
        System.out.print("Enter a string: ");
        String inputString = scanner.nextLine();

        // Change case of each letter
        String resultString = changeCase(inputString);

        // Display the new string
        System.out.println("Original String: " +
inputString);
        System.out.println("New String: " +
resultString);

        scanner.close();
    }

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

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

```

        // Check if the character is uppercase or
        lowercase and change accordingly
        if (Character.isUpperCase(currentChar)) {
            charArray[i] =
Character.toLowerCase(currentChar);
        } else if
(Character.isLowerCase(currentChar)) {
            charArray[i] =
Character.toUpperCase(currentChar);
        }
    }

    return new String(charArray);
}
}

```

## Output:

```

1 package com.wrapperclass.examples;
2 import java.util.*;
3 public class ChangeCase {
4     public static void main(String[] args) {
5         Scanner scanner = new Scanner(System.in);
6
7         // Input string
8         System.out.print("Enter a string: ");
9         String inputString = scanner.nextLine();
10
11         // Change case of each letter
12         String resultString = changeCase(inputString);
13
14         // Display the new string
15         System.out.println("Original String: " + inputString);
16         System.out.println("New String: " + resultString);
17
18         scanner.close();

```

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Problems @ Javadoc Declaration Console × Coverage

<terminated> ChangeCase [Java Application] C:\Users\USER\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_19.0.2.v2023012

Enter a string: wELCOME TO jAVA

Original String: wELCOME TO jAVA

New String: Welcome to Java

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

```
package com.wrapperclass.examples;
import java.util.*;
public class Encoding {
    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        StringBuilder sb = new StringBuilder();

        System.out.println("Enter a string with alpha
and numerals");
        String str=sc.nextLine();

        int i;

        for(i=0;i<str.length();i++)
        {
            char ch =str.charAt(i);

            switch(ch)
            {
                case 'a':
                case 'A':
                    sb.append('m');
                    break;
                case 'e':
                case 'E':
                    sb.append('n');
                    break;
                case 'i':
                case 'I':
                    sb.append('o');
                    break;
                case 'o':
                case 'O':
                    sb.append('p');
```

```

        break;
    case 'u':
    case 'U':
        sb.append('q');
        break;
    default:
        sb.append(ch);
    }

}

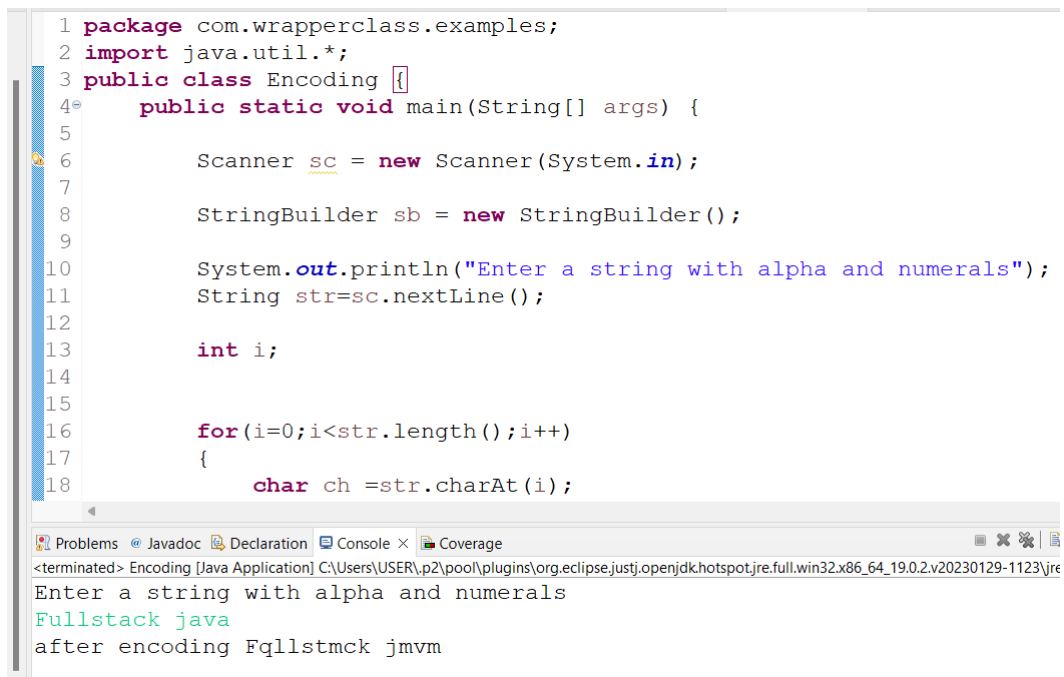
System.out.println("after encoding "+sb);

}

}

```

## Output:



```

1 package com.wrapperclass.examples;
2 import java.util.*;
3 public class Encoding {
4     public static void main(String[] args) {
5
6         Scanner sc = new Scanner(System.in);
7
8         StringBuilder sb = new StringBuilder();
9
10        System.out.println("Enter a string with alpha and numerals");
11        String str=sc.nextLine();
12
13        int i;
14
15
16        for(i=0;i<str.length();i++)
17        {
18            char ch =str.charAt(i);

```

Problems Javadoc Declaration Console Coverage

<terminated> Encoding [Java Application] C:\Users\USER\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_19.0.2.v20230129-1123\jre

Enter a string with alpha and numerals

Fullstack java

after encoding Fqllstmck jmvvm