

Name: Pallavi Chaudhary

Student Code: AF0316472

Batch code: ANP-C6008

Lab Assignment 4

1) Write a Java Program to count the number of words in a String without using the Predefined method?

Code:

```
//1) Write a Java Program to count the number of words in a
String without using the Predefined method?
package Assignment4;

public class Program1 {

    public static void main(String[] args) {
        String s = "My name is Pallavi Chaudhary"; // String
        System.out.println(s); // output string
        int no = 1; // will count the number of words in the
string
        for (int i = 0; i <= s.length() - 1; i++) {
            if ((s.charAt(i) == ' ') && (s.charAt(i + 1) !=
' ')) {
                no++;
            }
        }
        System.out.println("Number of words in this string
is : " + no); // will print the number of words in the string

    }

}
```

Output:

```
My name is Pallavi Chaudhary
Number of words in this string is : 5
```

2) Find the length of the given string without using pre-defined length() method.

Code:

```
//2) Find the length of the given string without using pre-
defined length() method.
```

```

package Assignment4;

public class Program2 {

    public static void main(String[] args) {
        String s = "My name is Pallavi"; // given string
        int count = 0;
        char arr[] = s.toCharArray(); // converting string
into character array
        for (char ch : arr) // length of the string
            count++;
        System.out.println("The length of the array is " +
count); // print the length of the string
    }

}

```

Output:

```
The length of the array is 18
```

3) Write a Java program to replace each substring of a given string that matches the given regular expression with the given replacement.

Sample string : "The quick brown fox jumps over the lazy dog."

In the above string replace all the fox with cat.

Sample Output:

Original string: The quick brown fox jumps over the lazy dog.

New String: The quick brown cat jumps over the lazy dog.

Code :

```

//3) Write a Java program to replace each substring of a given
string that matches the given regular expression with the
given replacement.
//Sample string : "The quick brown fox jumps over the lazy
dog."
// In the above string replace all the fox with cat.
// Sample Output:
// Original string: The quick brown fox jumps over the lazy
dog.
// New String: The quick brown cat jumps over the lazy dog.

```

```

package Assignment4;

public class Program3 {

    public static void main(String[] args) {
// Making the string array
        String[] s = { "The", " quick", " brown", " fox", "
jumps ", "over", " the", " lazy", " dog" };
        System.out.print("Original String: ");
//using for loop to print all the words as a sentence
        for (int i = 0; i < s.length; i++) {
            System.out.print(s[i]);
        }
        System.out.print(". "); // will print full stop
after the completion of the sentence.

        System.out.println(" "); // print original string
into a line
        s[3] = " cat"; // replace the word fox at index 3
with cat
        System.out.print("New String : "); // following code
will print new string by replacing fox from cat
        for (int j = 0; j < s.length; j++) { // print new
string as a sentence using for loop.
            System.out.print(s[j]);
        }
        System.out.print(". "); // print full stop after the
sentence
    }

}

```

Output:

```

Original String: The quick brown fox jumps over the lazy dog.
New String : The quick brown cat jumps over the lazy dog. |

```