

Assignment-7

```
1) public class CountVowelConsonant {

    public static void main(String[] args) {

        String line = "Hello world 37 1!";

        int vowels = 0, consonants = 0, digits = 0, spaces = 0;

        line = line.toLowerCase();

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

            if(ch == 'a' || ch == 'e' || ch == 'i'
                || ch == 'o' || ch == 'u') {
                ++vowels;
            }

            else if((ch >= 'a' && ch <= 'z')) {
                ++consonants;
            }

            else if( ch >= '0' && ch <= '9')
            {
                ++digits;
            }

            else if (ch == ' ')
            {
                ++spaces;
            }
        }
    }
}
```

```
    }  
}  
  
System.out.println("Vowels: " + vowels);  
System.out.println("Consonants: " + consonants);  
System.out.println("Digits: " + digits);  
System.out.println("White spaces: " + spaces);  
}  
}
```

```
2) class removeConsecutiveChars{  
public static String removeConsecutiveChars(String str) {
```

```
    if (str == null) {  
        return null;  
    }
```

```
    int strLen = str.length();  
    if (strLen <= 1) {  
        return str;  
    }
```

```
    char[] strChar = str.toCharArray();  
    char temp = strChar[0];
```

```
    StringBuilder stringBuilder = new StringBuilder(strLen);
```

```

for (int i = 1; i < strLen; i++) {

    char val = strChar[i];
    if (val != temp) {
        stringBuilder.append(temp);
        temp = val;
    }
}
stringBuilder.append(temp);

return stringBuilder.toString();
}

```

3)

```

public class RemoveRepChar
{
    static char ch;
    public static void main(String[] args)
    {
        String str="aabbbbcccc";
        char[] charArray = str.toCharArray();
        int count=0;
        for(int i=0;i<charArray.length;i++)
        {
            if(i!=0 )
            {

```

```

        if(charArray[i]==ch)continue;    //ddddee
        if(charArray[i]==charArray[i-1])
        {
count++;
if(count==1)
        {
            System.out.println(charArray[i]);
            count=0;
            ch=charArray[i];
        }
    }
    else
    {
count=0;//aabb

    }

}

}

}

```

4)

//String handling

//=====

/*public class StringEx

```

{
    public static void main(String args[])
    {
        String s1="java";
        char ch[]={ 'a','r','m','a','l' };
        String s2=new String(ch);
        String s3=new String("valivadekar");
        char[] helloArray = { 'h', 'e', 'l', 'l', 'o', '!' };
        String helloString = new String(helloArray);
        System.out.println( helloString );
        System.out.println(s1);
        System.out.println(s2);
        System.out.println(s3);
    }
}*/

```

//String Length

```

/*public class StringEx
{
    public static void main(String args[])
    {
        String palindrome="hello i m arati";
        int len=palindrome.length();

        System.out.println("String Length is:" +len);
    }
}

```

```
    }  
}*/  
  
//String compareTo  
  
/*class StringEx  
{  
    public static void main(String args[])  
    {  
        String s1="hello";  
        String s2="hello";  
        String s3="hemlo";  
        String s4="flag";  
        System.out.println(s1.compareTo(s2));  
        System.out.println(s1.compareTo(s3));  
        System.out.println(s1.compareTo(s4));  
    }  
}*/
```

```
//ReplaceString
```

```
/*public class StringEx  
{  
    public static void main(String args[])  
    {  
        String s1="hello how are you";
```

```

        String replaceString=s1.replace('h','t');
        System.out.println(replaceString);
    }
}*/
//StringToCharArray
class StringEx
{
    public static void main(String args[])
    {
        String s1="Welcome to Edureka";
        char[] ch=s1.toCharArray();
        for(int i=0;i<ch.length;i++)
        {
            System.out.print(ch[i]);
        }

    }
}

```

5)

```

class CountCharInEachWords {
    static void count(String str)
    {
        // Create an char array of given String
        char[] ch = str.toCharArray();
        for (int i = 0; i < ch.length; i++) {

```

```

        // Declare an String with empty initialization
        String s = "";

        // When the character is not space
        while (i < ch.length && ch[i] != ' ') {

            // concat with the declared String
            s = s + ch[i];

            i++;
        }

        if (s.length() > 0)
            System.out.println(s + "->" + s.length());
    }
}

public static void main(String[] args)
{
    String str = "I am a Java programmer";
    count(str);
}
}

7)
class ReverseofaString
{
    public static void main(String[] arg)

```



```

{
    ReverseofaString rev=new ReverseofaString();
    Scanner sc=new Scanner(System.in);
    System.out.print("Enter a string : ");
    String str=sc.nextLine();
    System.out.println("Reverse of a String is : "+rev.reverse(str));
}

static String reverse(String s)
{
    String rev="";
    for(int j=s.length();j>0;--j)
    {
        rev=rev+(s.charAt(j-1));
    }
    return rev;
}
}

```

8)

```

import java.lang.*;
import java.io.*;
import java.util.*;

```

```

class ReverseString

```

```

{
    public static void main(String[] args)
    {

```

```
String input = "Hello World";  
    StringBuilder input1 = new StringBuilder();  
  
    // append a string into StringBuilder input1  
input1.append(input);  
  
    // reverse StringBuilder input1  
input1 = input1.reverse();  
  
    // print reversed String  
System.out.println(input1);  
  
}  
}
```