5 FEB Assignment String in java

Q(1). WAP (Right a program) to remove duplicate from String (Take any string example with duplicate character).

```
class RemoveDuplicate {
   public static void main(String[] args) {
     String str1 = "StringInJavaDuplicateValue";
     System.out.println("The given string is: " + str1);
     System.out.println("After removing duplicates characters the new
string is: " + removeDuplicateChars(str1));
   private static String removeDuplicateChars(String sourceStr) {
     char[] arr1 = sourceStr.toCharArray();
     String targetStr = "";
     for (char value : arr1) {
       if (targetStr.indexOf(value) == -1) {
          targetStr += value;
      return targetStr;
```

Q(2). WAP to print duplicate character from the string?

```
// //Q(1). Wap (Write a program) to remove duplicate from a string ( take any string example with duplicate character ) // Q(2). WAP to print duplicates character from the string ?
```

```
public class DuplicateCharacters {
 public static void main(String[] args) {
   String string1 = "Great responsibility";
   char string[] = string1.toCharArray();
   System.out.println("Duplicate characters in a given string: ");
   for (int i = 0; i < string.length; i++) {</pre>
      for (int j = i + 1; j < string.length; <math>j++) {
        if (string[i] == string[j] && string[i] != ' ') {
          count++;
          string[j] = '0';
      if (count > 1 && string[i] != '0')
        System.out.println(string[i]);
```

Q(3). WAP to check if "2552" palindrome or not?

```
public class palindrome {
   public static void main(String args[]) {
      String str1 = "2552";
      String str2 = "";
      for (int i = str1.length() - 1; i >= 0; i--) {
            str2 = str2 + str1.charAt(i);
      }
      if (str1.equals(str2)) {
            System.out.println("palindrome");
      } else {
```

```
System.out.println("not palindrome");
}
}
```

Q(4). WAP to count the number of consonantes, vowel, special character in string?

```
Java Program to count vowels, consonant, digits and
import java.io.*;
public class countNumbers {
   static void countCharacterType(String str) {
       int vowels = 0, consonant = 0, specialChar = 0,
                digit = 0;
        for (int i = 0; i < str.length(); i++) {</pre>
            char ch = str.charAt(i);
            if ((ch >= 'a' && ch <= 'z') ||
                    (ch >= 'A' && ch <= 'Z')) {
                ch = Character.toLowerCase(ch);
```

```
vowels++;
                consonant++;
            digit++;
            specialChar++;
   System.out.println("Vowels: " + vowels);
   System.out.println("Consonant: " + consonant);
   System.out.println("Digit: " + digit);
   System.out.println("Special Character: " + specialChar);
static public void main(String[] args) {
   countCharacterType(str);
```

Q(5). WAP to implement Anagram checking least inbuilt method being used?

```
import java.util.Arrays;

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

    String str1 = "School Master";
    String str2 = "The Classroom";
```

```
str1 = str1.replace("", "");
str2 = str2.replace("", "");

str1 = str1.toLowerCase();
str2 = str2.toLowerCase();
char[] ar1 = str1.toCharArray();
char[] ar2 = str2.toCharArray();

Arrays.sort(ar1);
Arrays.sort(ar2);

if (Arrays.equals(ar1, ar2)) {
    System.out.println("it is Anagram");
} else {
    System.out.println("it is not Anagram");
}
```

Q(6). WAP to implement Pangram checking least inbuilt method being used?

```
import java.util.Arrays;
import java.io.*;

//Q(6). WAP to implement Pangram checking least inbuilt method being used ?

public class Pangram {

    // Java Program to illustrate Pangram

    public static boolean checkPangram(String str) {

        boolean[] mark = new boolean[26];

        int index = 0;

        for (int i = 0; i < str.length(); i++) {</pre>
```

```
index = str.charAt(i) - 'A';
                && str.charAt(i) <= 'z')
            index = str.charAt(i) - 'a';
        mark[index] = true;
        if (mark[i] == false)
           return (false);
public static void main(String[] args) {
    if (checkPangram(str) == true)
        System.out.print(str + " \nis a pangram.");
        System.out.print(str + " \nis not a pangram.");
```

Q(7). WAP to find if String contains all unique characters?

```
// Java program to illustrate string with
// unique characters using brute force technique
import java.util.*;
```

```
boolean uniqueCharacters(String str) {
       for (int i = 0; i < str.length(); i++)
            for (int j = i + 1; j < str.length(); j++)
                if (str.charAt(i) == str.charAt(j))
                    return false;
       return true;
   public static void main(String args[]) {
       uniq12 obj = new uniq12();
       String input = "GeeksforGeeks";
       if (obj.uniqueCharacters(input))
           System.out.println("The String " + input + " has all unique
characters");
           System.out.println("The String " + input + " has duplicate
```

Q(8). WAP to find the maximum occurring character in string?

```
// Java program to output the maximum occurring character
// in a string

//Q(8). WAP to find the maximum occurring character in string ?

public class MaxOcc12 {
    static final int ASCII_SIZE = 256;

    static char getMaxOccurringChar(String str) {
```

```
int count[] = new int[ASCII SIZE];
    int len = str.length();
        count[str.charAt(i)]++;
        if (max < count[str.charAt(i)]) {</pre>
           result = str.charAt(i);
   return result;
public static void main(String[] args) {
    System.out.println("Max occurring character is "
            + getMaxOccurringChar(str));
```