**Electem Buisness Solutions**

Kindly please follow the coding standards and naming convention.

Interview Java Programs :

Please follow the below instructions.

Create a new package:

The package name should be **com.electem.test.your name**

**Test 1:  (time: 30 min)**

Inside your package create a class called "StringOperationTest.java" where the main method should be there. Create one more class called "StringOperationService.java". Create required functions in the class "StringOperationService.java" and call those functions from the main method by creating an instance of the "StringOperationService.java" class.

**Package Structure should be like this**:

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com.electem.test.yourname

      |- StringOperationTest.java

      - main()

        - inside this main() call those functions by creating instance of

      StringOperationService.java

  |- StringOperationService.java

      - public String compareTwoStrings(String string1, String string2);

                  - public String removeWhiteSpace(String string);

                  - public int occurrenceOfCharacter(String word, char c);

                  - public String findGmailString (String  emails);

                   - public String getDevString(String word);

**NOTE:** Please print the output in the main method by using “System.Out.Println();”. Do not print anything in StringOperationService.java class.

**please refer to the below document to implement all these following functions:**

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<http://commons.apache.org/proper/commons-lang/apidocs/org/apache/commons/lang3/StringUtils.html>

**Functions you need to implement:**

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**1.1** create a function to compare 2 strings, If string 1 is greater than string 2, then only it will return string 1, or else it will return empty. (use built-in method "compareIgnoreCase" from the above document)

**1.2** create a function to remove the white space of the string and return the value. (use built-in method "strip" from the above document)

**1.3** create a function to check the character is present in the word or not? If it is present then print the count of the occurrence of that character in that word. (Please refer to the appropriate function from the above document)

**1.4**There is one string whose value is this below mentioned. [“rahul@hotmail.com,](mailto:)[kiran@yahoo.com,](mailto:kiran@yahoo.com,)[sachin@gmail.com,](mailto:sachin@gmail.com,),null,[shiva@gmail.com](mailto:shiva@gmail.com) ”

create a function to print the email id which is having “gmail” in it.(Please refer to the appropriate function from the above document)

**1.5** There  is a  one-string whose value is mentioned below.     "devloper,testingTeam,devTeam,management,devSecurityTeam,deved,,null"

create a function to print the string which starts with "dev" and whose value will be the same after reversing it. (Please refer to the appropriate function from the above document)

**Test 2 : (Time: 30 min)**

Inside your package create a class called "DateOperationTest.java" where the main method will be there. Create one more class called "DateOperationService.java". Create required functions in the class "DateOperationService.java" and call those functions from the main method by creating an instance of the "DateOperationService.java" class.

**Package Structure should be like this:**

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com.electem.test.yourname

  |- DateOperationTest.java

    - main()

          - inside this main() call those functions by creating instance of

        StringOperationService.java

  |- DateOperationService.java

      - public Date compareTwoDate(Date d1, date d2);

  - public String convertDateToString(Date date);

  - public date checkMonth(Date date);

  - public date checkDay(Date date);

**NOTE:** Please print the output in the main method by using “System.Out.Println();”. Do not print anything in StringOperationService.java class.

**please refer to the below document to implement all these following functions:**

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https://docs.oracle.com/javase/8/docs/api/java/util/Date.html

**Functions you need to implement:**

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**2.1** Write a function to compare two dates and return the greater date. (use built-in method "compareTo" from the above document)

**2.2** Write a function to convert Date object to String format (use built-in method "toString" from the above document)

**2.3** Write a function to return the current date if today's month is "September" else return the last date of this month. (Please refer to the appropriate function from the above document)

**2.4** Write a function to return 15 days past date from today's date if today is "Thursday" else return 15 days future date. (Please refer to the appropriate function from the above document)

**Test 3 : (Time 30 Min)**

Inside your package create a class called "FileOperationTest.java" where the main method will be there. Create one more class called "FileOperationService.java". Create required functions in the class "FileOperationService.java" and call those functions from the main method by creating an instance of the "FileOperationService.java" class.

**Package Structure should be like this**:

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com.electem.test.yourname

  |- FileOperationTest.java

    - main()

                    - inside this main() call those functions by creating instance of

        FileOperationService.java

  |- FileOperationService.java

      - public void creatAndWriteFile(File file);

                  - public void appendContent(File file);

      - public void replcaeWord(File file);

**please refer to the below document to implement all these following functions:**

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https://commons.apache.org/proper/commons-io/javadocs/api-2.5/org/apache/commons/io/FileUtils.html

**Functions you need to implement:**

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**3.1** create a function to create a file, write this string "This is a programming test for java developer" to that files. (use built-in method "touch"&"writeStringToFile" from the above document)

**3.2** Write a function to copy the file and append content into the file.(Please refer to the appropriate function from the above document)

**3.3**  Copy the existing directory to another folder and in that directory check the contents of the two files are the same or not? If the content is the same then delete the directory.(Please refer to the appropriate function from the above document)