Test Summa	rv

No. of Sections: 1No. of Questions: 5

• Total Duration: 120 min

Sectio	on 1 - coding question
Section Summary	
No. of Questions: 5Duration: 120 min	
- Duration. 120 min	
Additional Instructions: None	
Q1. Write a program to check whether the given string	is a palindrome.
Input Format	
Input to get a string S.	
Output Format	
Output prints whether the string is palindrome or not.	
Sample Input	Sample Output
mom	mom :palindrome
Sample Input	Sample Output
norms	norms :not a palindrome
Sample Input	Sample Output
butitwaslateonthatday	butitwaslateonthatday :not a palindrome
Time Limit: - ms Memory Limit: - kb Code Size: - kb	
Q2. Write a program to count the vowels in the string.	
Input Format	
First line to get the input string S.	
Output Format	
Displays the number of vowels	
Constraints	
S > 0	

Sample Output

1

Sample Input

string

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Input	Format
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Input to get two strings.

Output Format

Display the output as shown in the sample output.

- if (string1 > string2) it returns a positive value(difference between the characters)
- if both the strings are equal lexicographically i.e.(string1 == string2) it returns 0.

 if (string1 < string2) it returns a negative value((difference between the characters)

Sample Input	Sample Output	
harry	0	
Sample Input	Sample Output	
john mini	-3	
Sample Input	Sample Output	
tiger lion	8	

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q4. Write a program to remove consecutive vowels from a string.

Input Format

Input to get a string.

Output Format

the output displays the string after removing consecutive vowels from it.

Sample Input **Sample Output**

cool	col

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q5. Write a program to validate domain names of the email address. The fair organizers have listed the accepted domains as "com", "in", "net", and "org". Write a program to validate email addresses that have the above listed domain names. Create a driver class called Main. In the Main method, obtain the inputs from the console and validate the email address.

Input Format

Input consist of the email address

Output Format

Output prints the email address and in next line whether the email address is valid or not. Refer sample input and output for formatting specifications.

Sample Output Sample Input

ram@gmail.com	ram@gmail.com Valid email address

Sample Input **Sample Output**

ram@gmail.biz ram@gmail.biz Invalid email address Time Limit: - ms Memory Limit: - kb Code Size: - kb

Test Case

Input	Output
noon	noon :palindrome
Weightage - 20	
Input	Output
morn	morn :not a palindrome
Weightage - 20	
Input	Output
butteritwasbutterlove	butteritwasbutterlove :not a palindrome
Weightage - 30	
Input	Output
kik	kik :palindrome
Weightage - 10	
Input	Output
late	late :not a palindrome
Weightage - 10	
Input	Output
madam	madam :palindrome
Weightage - 10	
Sample Input	Sample Output
mom	mom :palindrome

Input
Output

tree 2

Weightage - 20

Input Output

yellow 2

Weightage - 20

Sample Input Sample Output

string 1

Solution

Q3 Test Case

Input Output

nisha priya -2

Input	Output
richard roy	-6
Weightage - 20	
Input	Output
solo minion	6
Weightage - 20	
Input	Output
alloy metal	-12
Weightage - 20	
Input	Output
unique talent	1
Weightage - 20	
Sample Input	Sample Output
harry	0
Sample Input	Sample Output
john mini	-3
Sample Input	Sample Output
tiger lion	8
Solution	

```
import java.util.Scanner;
class Main{
public static void main(String args[]) {
    Scanner in=new Scanner(System.in);
     String str1,str2;
```

```
str1=in.nextLine();
   str2=in.nextLine();
   int result = str1.compareTo( str2 );
   System.out.println(result);
}
Test Case
Input
                                                          Output
  follow
                                                             follow
Weightage - 20
Input
                                                          Output
  redeem
                                                             redem
Weightage - 20
                                                          Output
Input
  moon
                                                             mon
Weightage - 20
Input
                                                          Output
  next
                                                             next
Weightage - 20
Input
                                                          Output
  piicture
                                                             picture
Weightage - 20
Sample Input
                                                          Sample Output
   cool
                                                             col
```

Solution

Q4

```
import java.util.Scanner;
class Main
{
    static boolean is_vow(char c)
        return (c == 'a') || (c == 'e') ||
               (c == 'i') || (c == 'o') ||
               (c == 'u');
    static void removeVowels(String str)
    {
        System.out.print(str.charAt(0));
           for (int i = 1;i < str.length(); i++)</pre>
           if ((!is_vow(str.charAt(i - 1))) ||
                (!is_vow(str.charAt(i))))
                System.out.print(str.charAt(i));
    public static void main(String[] args)
        String str;
        Scanner in=new Scanner(System.in);
        str=in.nextLine();
        removeVowels(str);
   Test Case
   Input
                                                           Output
     ram@gmail.com
                                                               ram@gmail.com
                                                              Valid email address
   Weightage - 20
   Input
                                                           Output
     ram@gmail.biz
                                                               ram@gmail.biz
                                                               Invalid email address
   Weightage - 20
   Input
                                                           Output
     rayon@yahoo.net
                                                               rayon@yahoo.net
                                                              Valid email address
   Weightage - 20
   Input
                                                           Output
     morsh@hotmail.in
                                                              morsh@hotmail.in
                                                              Valid email address
```

Q5

Input Output

```
stephen@yahoo.us
Invalid email address
```

Weightage - 20

Sample Input

Sample Output

```
ram@gmail.com
Valid email address
```

Sample Input

Sample Output

```
ram@gmail.biz
Invalid email address
```

Solution

```
import java.io.*;
import java.util.*;
class Main {
public static void main(String [] args) {
    Scanner sc = new Scanner(System.in);
    String email = sc.nextLine();
    System.out.println(email);
    if(email.contains("com") || email.contains("in") || email.contains("net") || email.contains("org")) {
        System.out.println("Valid email address");
    }
    else {
        System.out.println("Invalid email address");
    }
}
```