## Question 04: (03 marks)

The interface **IUtilities** below is already given in Java code format, thus you can use it without creating an IUtilities .java file.

< <interface>&gt; IUtilities</interface>		
+ sumNumber( <b>number</b> : int): int		
+ replaceString(sentence: String, s1:String, s2:String): String		

Write a class named MyUtilities, which implements the interface IUtilities. The class MyUtilities implements all methods in IUtilities as below:

- + sumNumber (**number**: int): int return the sum of all divisors from 1 to number/2
- + replaceString (**sentence**: String, String, **str:** String): int return a new string after replacing the words equal to the string s1 in the string **sentence** with the string s2. Suppose that the sentence consists of words separated by a space, string comparisons are not case-sensitive

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Hints: You can refer to the methods: split() and join() of the String class

The program output might look something like this:

## Do not format the result.

The program output might look something like this:

ne program output might rook something me this.	
1. Test sumNumber	1. Test sumNumber
2. Test replaceString	2. Test replaceString
Enter Test Case No. (1/2): 1	Enter Test Case No. (1/2): 2
Enter a number: 21	Enter a sentence: PRO192 lap trinh pro192
OUTPUT:	Enter s1: pro192
11	Enter s2: OOP
	OUTPUT:
	OOP lap trinh OOP