**Question 04: (03 marks)**

Write an interface named **INumberUtilities**with the following information:

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| --- |
| **«interface»**  **INumberUtilities** |
|  |
| + findFirstEvenNumber(String numbers): int  + sumOfDigits(int number): int |

Where:

**findFirstEvenNumber(String numbers):** int - finds and returns the first even number in the string of numbers. If no even number is found or the string is empty/null, it returns -1.

**sumOfDigits(int number)**: int - returns the sum of all digits in the given number. For negative numbers, it processes the absolute value of the number.

Write a class named **NumberProcessor**, which implements the interface **INumberUtilities**. The class NumberProcessor implements all methods in INumberUtilities. Students can add methods to implement interface functions..

***Do not format the result.***

***The program output might look something like this:***

|  |  |
| --- | --- |
| 1. Test findFirstEvenNumber  2. Test sumOfDigits  Enter Test Case No. (1/2): 1  Enter a string of numbers: 1 3 5 7 9  OUTPUT:  No even number found | 1. Test findFirstEvenNumber  2. Test sumOfDigits  Enter Test Case No. (1/2): 1  Enter a string of numbers: 3 5 7 9 10 12 14  OUTPUT:  10 |
| 1. Test findFirstEvenNumber  2. Test sumOfDigits  Enter Test Case No. (1/2): 2  Enter a number: 123456  OUTPUT:  21 | 1. Test findFirstEvenNumber  2. Test sumOfDigits  Enter Test Case No. (1/2): 2  Enter a number: -987  OUTPUT:  24 |