C# Assignment 2

Let I = [2,3[U] 0,1] U [-10, -2] in the set of reals. Write the program named Interval which:

asks the user to enter a real; saves the user's response in an x variable of the real type; test the membership of x to the set I and display the message "x belongs to I" if this is the case, and "x does not belong to I" otherwise. This test must use only comparator operators < and ==.

All logical operators are, however, allowed.

Note that, in elementary logic, "not (A and B)" can also be written as "(not A) or (not B)".

Test your program with the values -20, -10, -2, -1, 0, 1, 1.5, 2, 3 and 4.

Here's what your program should look like:

```
Enter a real number : -20 x does not belong to I
...
Enter a real number : -10 x belongs to I
...
Enter a real number : -2 x belongs to I
...
Enter a real number : -1 x does not belong to I
...

Enter a real number : 0 x does not belong to I ...

Enter a real number : 1 x belongs to I
...
Enter a real number : 1.5 x does not belong to I
...
Enter a real number : 2 x belongs to I
...

Enter a real number : 3 x does not belong to I ...

Enter a real number : 4 x does not belong to I ...
```