

## C#.NET LAB 7: REGULAR EXPRESSIONS

NOTE: Points will be awarded for items that are written correctly in themselves but don't actually work because other things are broken. There is a total of 10 points available for this lab.

**Task:** Write a program that will recognize invalid inputs using regular expressions.

### What will the application do?

- The program will validate different kinds of input.

### Build Specifications:

- **2 Point:** Write a method that will validate names. Names can only have alphabets, they should start with a capital letter, and they have a maximum length of 30.
- **2 Point:** Write a method that will validate emails. An email should be in the following format: {combination of alphanumeric characters, with a length between 5 and 30, and there are no special characters}@{combination of alphanumeric characters, with a length between 5 and 10, and there are no special characters}.{domain can be a combination of alphanumeric characters with a length of two or three}
- **2 Point:** Write a method that will validate phone numbers. A phone number should be in the following format: {area code of 3 digits} - {3 digits} - {4 digits}
- **2 Point:** Write a method that will validate date based on the following format: (dd/mm/yyyy)

### Additional Requirements:

- **1 Point:** For answering Lab Summary when submitting to the LMS
- **-2 Points:** if there are any syntax errors or if the program does not run (for example, in a Main method).

### Extended Exercises:

- **1 Point:** Write a method that validates HTML elements (Example: <p> </p> is a valid html element, and <h1 <h1> is not valid. Don't worry about special cases where you have self-contained HTML elements).

### Hints:

- Use <https://regexr.com/> to try out the regular expressions before adding them to your C# code.

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### Console Preview:

Please enter a valid name: James1234

Sorry, name is not valid!

Please enter a valid email: james@james.com

Email is valid!

Please enter a valid phone number: 5555555555

Sorry, phone is not valid!

Please enter a valid date: 3/4/18

Sorry, date is not valid!