## NPRG036: XML Technologies

## Practical Classes 11 and 12:

## SAX, DOM: Exercises

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## Exercise 1 (SAX)

- Print an input XML document on the standard output (console)
- The hierarchy of elements must be preserved
- Achieve indentation using white spaces
- Transform (print) all the attributes as elements
- Make the string data upper cased


## Exercise 2 (SAX)

- Implement proprietary XML document validation
- IDs must start with the following letters:
- owners: o, agencies: a, properties: p, flats: f
- Every property must have at least 2 and at most 5 particular features when a list of features is provided
- Value of element numberOfFlats must be nonnegative
- Print error messages in a new element errors at the end of the output XML document
- For every error include its position (line, column) and textual description


## Exercise 3 (SAX)

- Change the output to HTML
- The output document will now contain a table, in every row there will be:
- Flat name
- Monthly rate
- Comfort level
- Features
- Put the overall number of all specified features across all the flats at the end of the table


## Exercise 4 (DOM)

- Transform rate elements of flats to attributes


## Exercise 5 (DOM)

- Remove flats with rate >= 20000


## Exercise 6 (DOM)

- Create a new owner record with all respective data
- Your program must run even if...
- Element owners is empty
- Element owners does not exist at all

