

# Lab 1

## Lab 3 --> Classes

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1. Implement a Stack ( .push(), pop(), top(), isEmpty(), toString() )
2. Implement a class with a fromJson() constructor + toJson()

```
class Exemplu {
    int varA;

    int varB;

    String varC;

    List <int> varD;

    double varE;
}
```

3. a) Create a class called BankClient that have 3 private attributes:
  - Id - which is generated automatically and represents the order of the client in the bank Data Base (starting from 1 and can't be changed)
  - Name (can't be changed)
  - Balance have 3 methods (get, add, subtractIfPossible). It will be initialized at 0 and can't be negative.
- b) Create a constructor that use "Initializer list" to initialize the name.
- c) Create a static method that print the number of clients and the bank balance.
- d) Create a small test program (main).