24/04/2020

Scala in Practice

lab 06

Acceptance criteria:

Create Scala program with:

- Package *pizzeria* with sub-packages & classes to represent abstractions in pizza-place which:
  - sells 3 types of pizzas: *Margarita (5$), Pepperoni (6.5$) & Funghi (7$)*
  - in 3 sizes: *small, regular & large*
  - on 2 crust types: *thin & thick (same price)*
  - with 2 kinds of toppings: *ketchup (+0.5$) & garlic (+0.5$)*
  - with 1 kind of meat: *salami (+1$)*
  - with 1 kind of drink: *lemonade (2$)*
  - has 2 kinds of discounts: *student & senior*
- This should be a valid definition:

```
case class  Pizza(
    type:...,
    size:...,
    crust:...,
    extraMeat:...,  //optional meat
    extraTopping:... //optional topping
) {

  override def toString() = ??? //pretty print the pizza

  val  price: Double = ???  //calculated price for pizza. When
      type=small than price is 90% & if type=large than
      price is 150%
}
```

- Package *orders* with

```
class Order(
  name: String,
  address: String,
  phone:..., //mandatory validated phone-number (hint: regex)
  pizzas:...,
  drinks:...,
  discount:..., //optional value
```

Scala in Practice

lab 06

```
    specialInfo: ..., //optional text, like: “Ring doesnt work,
     please knock”
) {

    override def toString() = ??? //pretty print the order

    def extraMeatPrice: Option[Double] = ???

    def pizzasPrice: Option[Double] = ???

    def drinksPrice: Option[Double] = ???

    def priceByType(type:...): Option[Double] = ??? //total price of
    all pizzas by type (Margarita, Pepperoni & Funghi)

    val price: Double = ??? //total price of order. When
    discount=student than price for all pizzas is reduced by -5%
    & if discount=senior than price for all pizzas & drinks is
    reduced by -7%

}
```

- Create *application entry-point* object with some example tests for the above implementation

Note: Dont use any **null-checks**

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