

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

  specialInfo: ..., //optional text, like: "Ring doesnt work,
    please knock"
```

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```
) {  
  
  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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