You have the following structure in your `data.yml` file.

```yml
    uk:
      name: "United Kingdom"
      currency: "GBP"
      cities:
        london:
          name: "London"
          coordinates: [51.497915, -0.107167]
        dublin:
          name: "Dublin"
          coordinates: [53.347547, -6.281021]
      banks: [
        "Barclays",
        "HSBC",
        "NatWest",
        "Lloyds",
        "Halifax",
        "Santander"
      ]
    de:
      name: "Germany"
      currency: "EUR"
      cities:
        berlin:
          name: "Berlin"
          coordinates: [52.543623, 13.406660]
        frankfurt:
          name: "Frankfurt"
          coordinates: [50.129052, 8.681875]
        munich:
          name: "Munich"
          coordinates: [48.153909, 11.580281]
        hamburg:
          name: "Hamburg"
          coordinates: [53.554472, 10.010414]
      banks: [
        "Number 26",
        "ING",
        "Commerzbank",
        "Deutsche Bank",
        "Deutsche Kreditbank",
        "Comdirect",
        "Postbank",
        "Sparkasse HBCI",
        "Raiffeisen"
      ]
```

I want you to do the following:

* **Classify data**

1) Create a Country class, (instances should have [:name, :currency] attributes
2) Create a City class, (instances should have [:name, :coordinates, :country] attributes
3) Create a Bank class, (instances should have [:name, :city, :country, :max_credit_value, :min_credit_value, :interest_rate, :credit_time] attributes)

credit_time – is a random value from **Bank::CREDIT_TIMES** attribute, which is an array with the following values: [6, 12, 24, 36]
interest_rate – **5 + random_value * 1 / credit_time * 10** (%) where **random_value** is a random value from **Bank::INTEREST_RATES = (3.0..5.0)**

(max_credit_value, min_credit_value, interest_rate are given randomly with values your prefer, more info below.

4) Create a Customer class, (instances should have [:full_name, :city, :country, :age, :salary] attributes)
5) Create a Credit class, (instances should have [:customer, :bank, :amount, :paid_amount, :start_date, :end_date])

* **Create instances**

1) Using any way to read the data from file (using YAML library is preferred) convert data into an ruby object
2) Choose a random bank (by code) and create an instance of it.
Hint: Create an array which include all given banks and take a sample.

*** Enrich your classes**

1) Add **:full_name** method to a class, that should return a full name of a bank. Example:

Raiffeisen => “Raiffeisen bank, Berlin, Germany”
Commerzbank => “Commerzbank, Munich, Germany”
Santander => “Santander bank, London, United Kingdom”

Note: don’t write “bank” if bank_name includes `bank` inside.

2) Write a **:issue_loan** method, which takes a customer instance, credit_amount, credit_time as arguments.
This method should raise a `**CreditDenied**` exception if customer cannot be served by the bank, otherwise returns a Credit instance.

- A customer can be served by a bank if:
  - His age is over 18
  - He lives in the same country.
  - Credit amount he wants to take is in the range of bank **min_credit_value** and **max_credit_value**
  - customer monthly debt is 30% less then customer’s salary:
    HINT:
    monthly_debt = (credit_amount / credit_time + credit_amount / credit_time * interest_rate)

3) Write **:pay** method which will increase credit’s **:paid_amount** by given as argument amount (or 50% of customer’s salary by default)

*** Execute your code:**

1) Create a customer
2) Check if a bank can give a loan to your customer, if does → create it
3) Pay customer’s debt once.