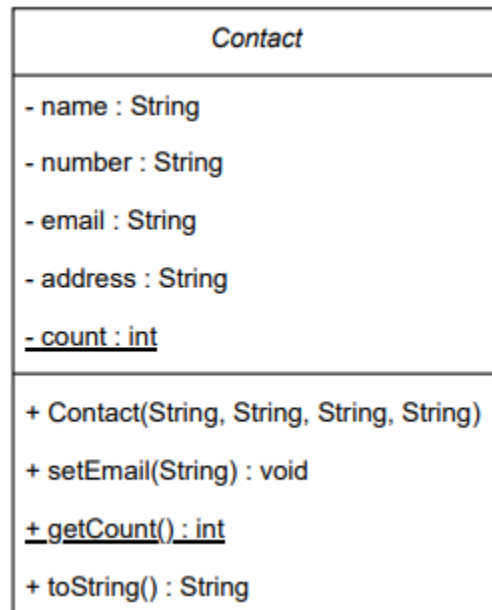


We want to write a program that manages contacts using the following UML diagram:



### Class **Contact**:

- Instance Attributes:
  - ***name***: the name of the contact
  - ***number***: the phone number of the contact
  - ***email***: the email address of the contact
  - ***address***: the address of the contact
- Class Attributes:
  - ***count***: the number of contact objects created so far
- Methods:
  - ***Contact(name:String, number:String, email:String, address:String)***: constructor
  - ***setEmail(email:String)***: updates the value of ***email***
  - ***getCount()***: returns the value of ***count***

- *toString()*: returns a string representation of the contact in the following format:
  - *name | phone | email | address*

**Exercise 1:** Write class **Contact** and implement its methods.

**Exercise 2:** Write class **ContactTest** that has a main method to test the functionalities of class **Contact**:

- Print the number of created contact objects
- Create two contact objects (see sample run)
- Print their info
- Prompt the user to update the email of Sara, then print her info
- Print the number of created contact objects

**Sample run:**

```
Number of created contacts at the start of the program: 0
Ahmed | 0551122 | ahmad@gmail.com | Riyadh
Ali | 0553344 | ali@gmail.com | Jeddah
Enter new email address for Ahmad: ahmad@outlook.com
Ahmad | 0551122 | ahmad@outlook.com | Riyadh
Number of created contacts at the end of the program: 2
```