

6. Given the class diagram in Figure 8.3:
 [Diberi rajah kelas pada Rajah 8.3:]

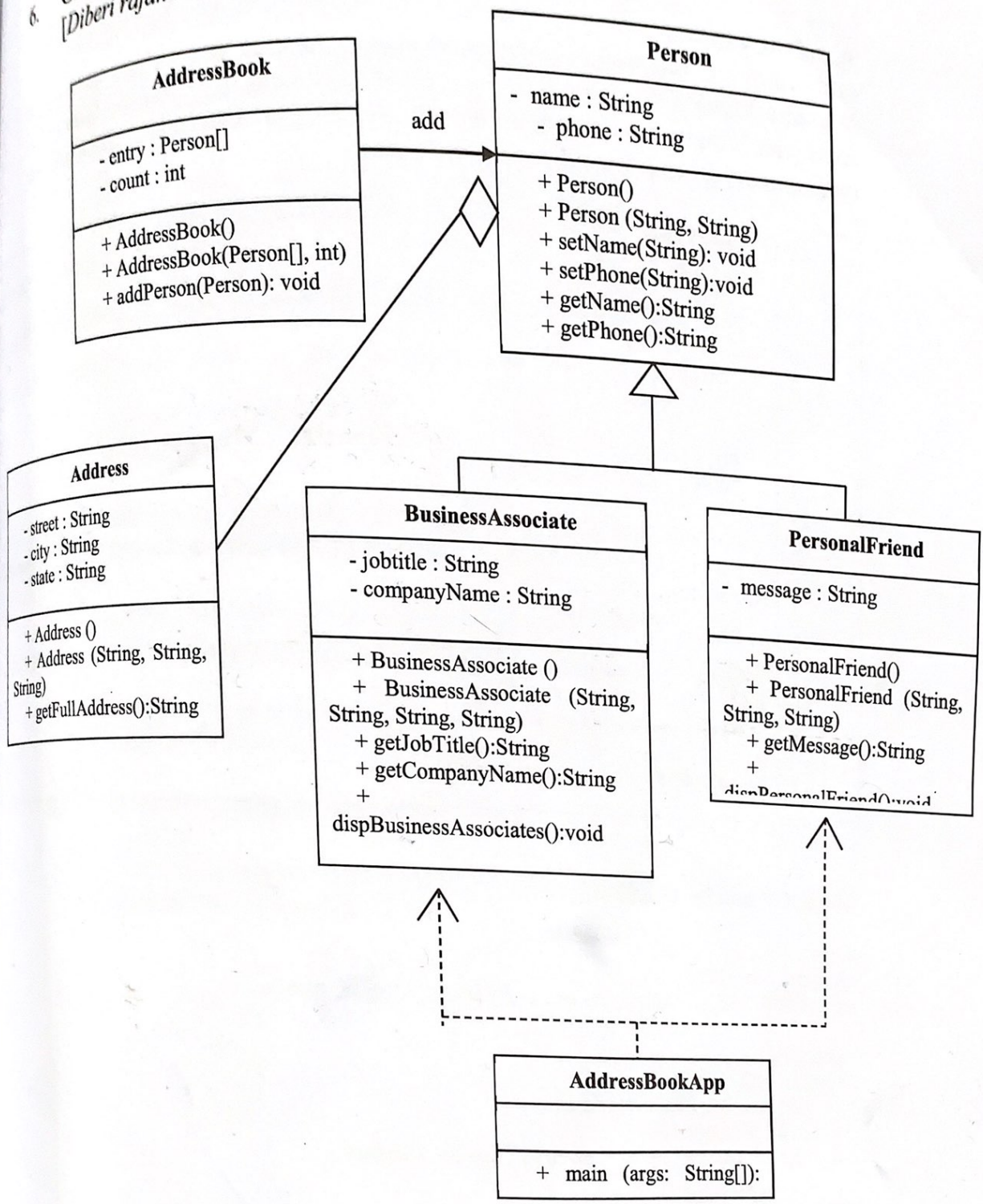


Figure 8.3: Class Diagram

Write a complete Java program that contains classes as shown in Figure 8.3. Assume that the **AddressBookApp** class contains a main method that creates an array of Person named **book1**, and input the relevant information about his/her friends as follows:

[Tulis aturcara Java yang lengkap yang mengandungi kelas-kelas yang ditunjukkan di dalam Rajah 8.3. Anggapkan yang kelas **AddressBookApp** mengandungi metod main yang mencipta satu tatasusunan Person yang bernama **book1** dan maklumat input tentang kawan-kawannya seperti berikut.]

```

1 AddressBook book1 = new AddressBook(10);
2 Address ad1 = new Address("No 2 Jalan Mawar", "Skudai", "Johor
3 Bahru");
4 Address ad2 = new Address("Block 1-7", "Cheras", "Kuala
5 Lumpur");
6 Address ad3 = new Address("202-2 Jalan Bendahara", "Muar",
7 "Johor");
8
9 Person newfriend1 = new Person("Ms. X", "555-1212", ad1);
10 book1.add(newfriend1);
11
12 BusinessAssociate b1;
13 b1 = new BusinessAssociate("Mr. Yeo", "019-2342", ad2, "General
14 Manager", "Motorola");
15 book1.add(b1);
16
17 PersonalFriend f1 = new PersonalFriend("Mrs. Zyda", "012-8278",
18 ad3, "My school mate");
19 book1.add(f1);
20
21 book1.displayAddressBook();

```

The output will be as follows:

Name: Ms. X
 Phone: 555-1212
 Address: No 2 Jalan Mawar, Skudai, Johor Bahru

Name: Mr. Yeo
 Phone: 019-2342
 Job Title: General Manager
 Company: Motorola
 Address: Block 1-7, Cheras, Kuala Lumpur

Name: Mrs. Zyda
 Phone: 012-8278
 Address: 202-2 Jalan Bendahara, Muar, Johor
 Message: My school mate