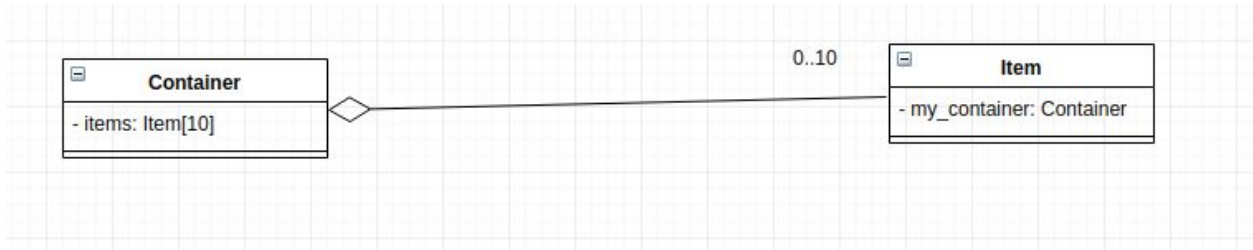
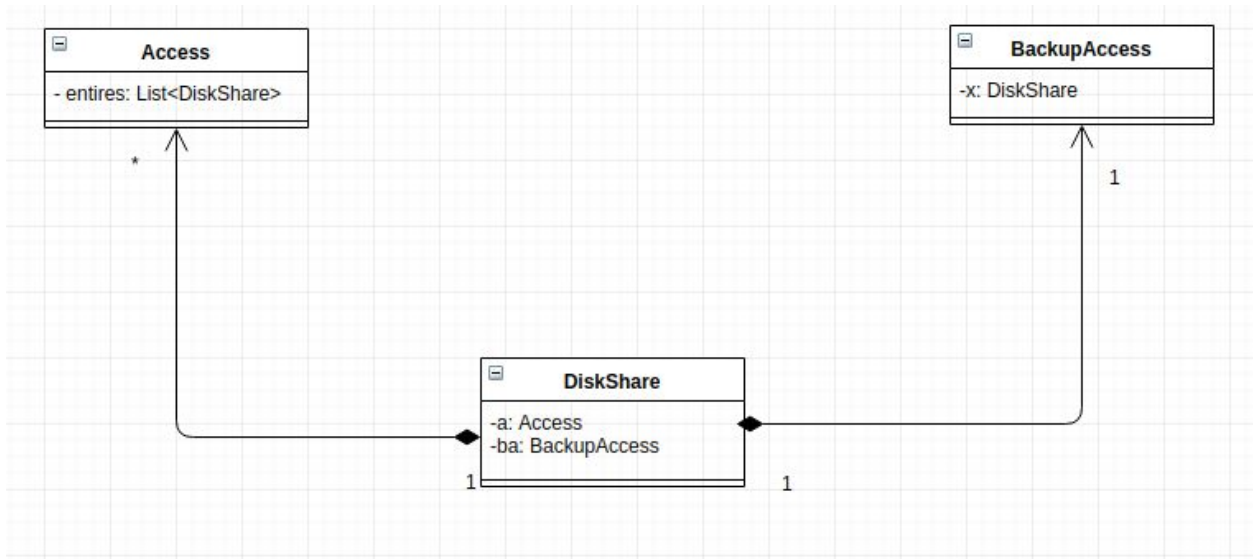


Part A)

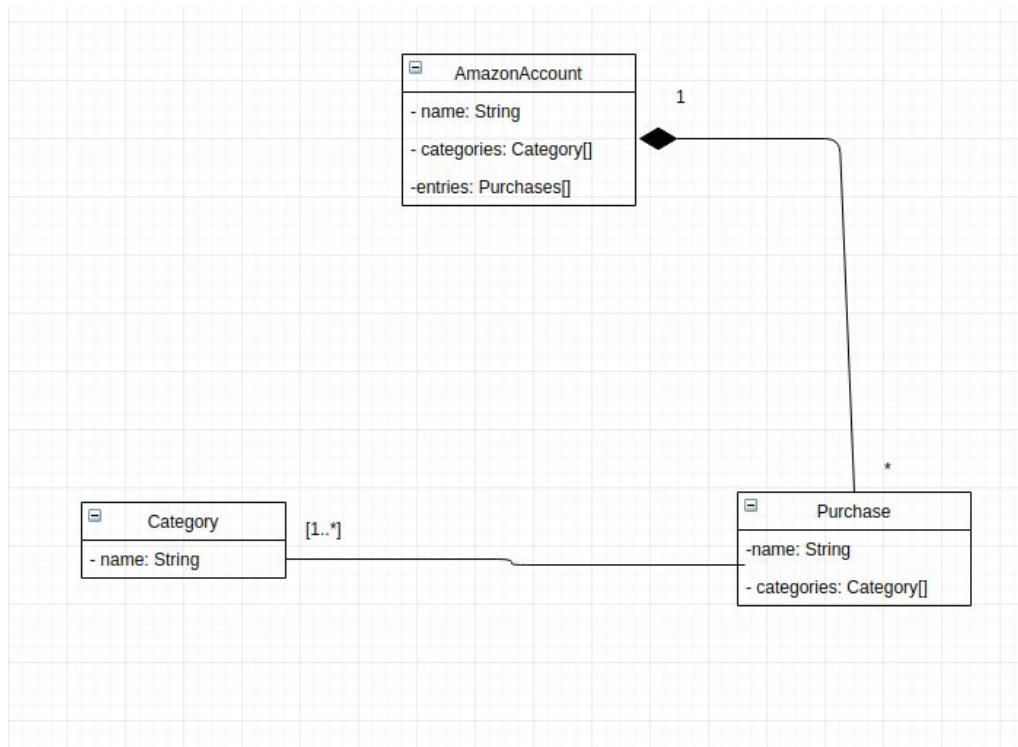
1)



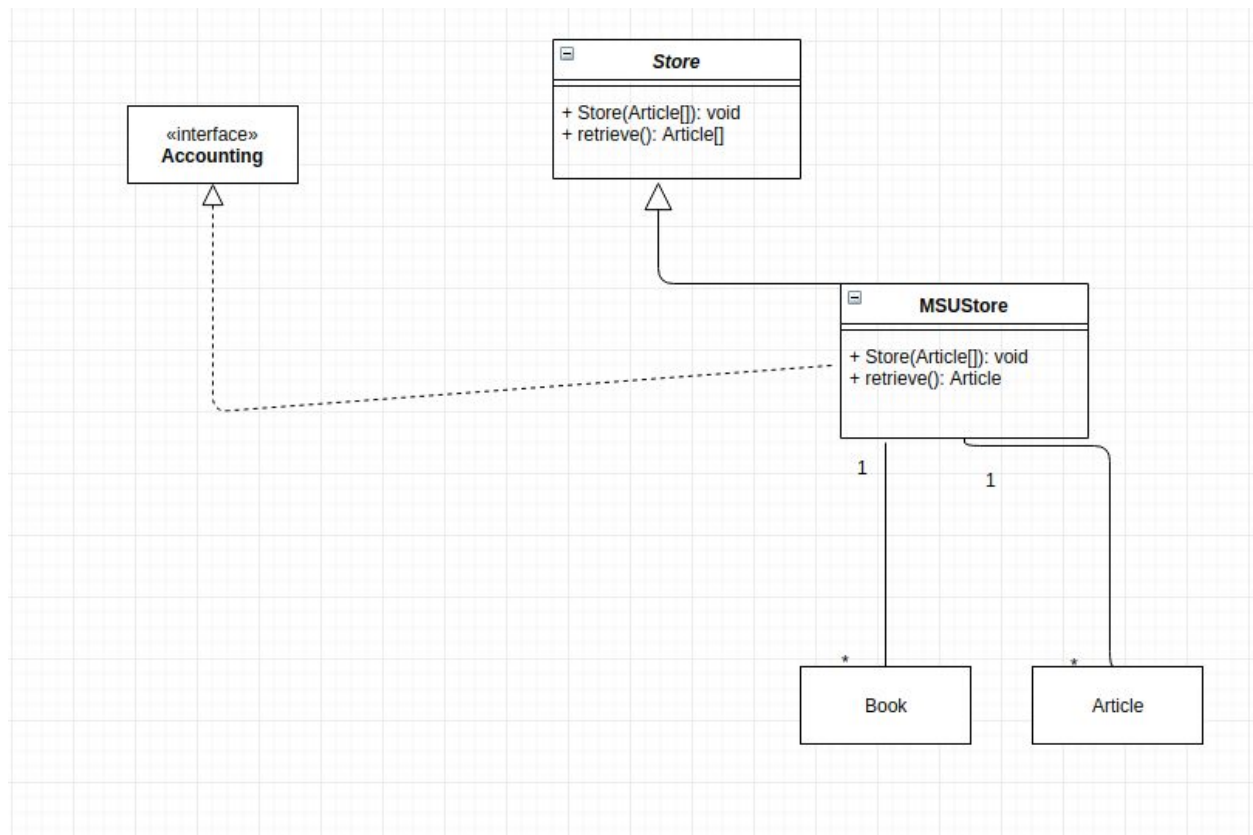
2)



3)



4)



## Part B) Pseudo Code

```
Public Interface Rentable {  
    Public Void rent()  
    // Every class and subclass under this interface gets the rent() method  
}
```

```
Public Abstract Class Vehicle implements Rentable {  
}
```

```
Public Class Truck extends Vehicle {  
    Public UnlimitedNatural weight;  
    Public UnlimitedNatural power;  
    Public String manufacturer;  
    Public String regNo;  
}
```

```
Public Class Car extends Vehicle {  
    Public Carkind kind;  
    Public UnlimitedNatural noSeats;  
    Public UnlimitedNatural power;  
    Public String manufacturer;  
    Public String regNo;  
}
```

```
Public Class Motorbike extends Vehicle {  
    Public Mbkind kind;  
    Public UnlimitedNatural cylinderCap  
    Public UnlimitedNatural power;  
    Public String manufacturer;  
    Public String regNo;  
}
```

```
Public Class Company{  
    Public Truck truck;  
    Public Car car;  
    Public Motorbike Motorbike;  
    Public Service service = new Service();  
    Public Customer customer;  
    Public Employee employee  
    Public String name;  
    Public Address address;  
}
```

```
Public Abstract Class Service {  
    Public Customer customer;  
    // Every class and subclass under this abstract class gets customer  
}
```

```
Public Class VehicalRentalService extends Service {  
    Public Vehicle vehicle;  
    Public void offerCar() {...}  
    Public void offerMotorbike(){...}  
    Public void offerTruck(){...}  
}
```

```
Public Abstract Class Person {  
    Public String name;  
    Public String email;  
    Public Address address;  
    // Every class and subclass under this abstract class gets name and email  
}
```

```
Public Class Address {  
    Public String street;  
    Public String postalCode;  
    Public String city;  
}
```

```
Public Class Employee extends Person { }
```

```
Public Class Customer extends Person {  
    Public BankAccount bankAccount = new BankAccount();  
}
```

```
Public Class BankAccount {  
    Public UnlimitedNatural number;  
    Public String depositor;  
    Public String bank;  
}
```

```
Public Class Subcontractor extends Employee, Customer {  
    // One thing to note is that not every OOP language has classes that can inherit from MULTIPLE  
    classes  
}
```

