

Exercise (Abstraction)

Q1:

Product << Abstract>> -name:String -price:double +Product() +Product(String name, double price) +getName():String +getPrice():double +setName(String name):void +setPrice(double price):void +getDiscount():double

Book

- -author:String
- +Book()
- +Book(String name, double price, String author)
- +getAuthor():double
- +setAuthor(String author):void
- +getDiscount():double

Movie

- -director:String
- +Movie()
- +Movie(String name, double price ,String director)
- +getDirector():String
- +setDirector(String director):void
- +getDiscount():double

Movable <<Interface>>

- +moveUp():void
- +moveDown():void
- +moveLeft():void
- +moveRight():void



MovablePoint

- -x:int
- -y:int
- -xSpeed:int
- -ySpeed:int
- +MovablePoint(int x, int y, int xSpeed
- , int ySpeed)
- +moveUp():void
- +moveDown():void
- +moveLeft():void
- +moveRight():void

moveUp: y+=ySpeed

moveDown: y-=ySpeed

moveLeft: x-=xSpeed

moveRight: x+=xSpeed