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COURSE	Java Programming

SURPRISE ASSESSMENT - 2

Create Exception class called BookQuantityNotAvailableException and use it in the class called "Store" which is described by its bookId title, author, price and quantityAvailable. Include a method called purchase() taking the purchase quantity as a parameter and update the quantityAvailable appropriately. Create a package containing the Store and an Exception class. Write a java program to test the working of the Store class.

Store Class:

```
import Library.Book;

public class Store {
    public static void main(String args[]){

        Book b1 = new Book();
        b1.id = "1";
        b1.title = "Harry Potter";
        b1.author = "JKR";
        b1.price = 250;
        b1.quant = 10;

        try{
            b1.purchase(11);
        }
        catch(Exception e){
            System.out.println(e);
        }
        try{
            b1.purchase(9);
        }
        catch(Exception e){
            System.out.println(e);
        }
    }
}
```

Library Package:

```
package Library;

class InvalidQuantityException extends Exception{
    InvalidQuantityException(String s){
        super(s);
    }
}

public class Book {
    public String id, title, author;
    public float price;
    public int quant;

public void purchase(int quant) throws Exception{
        if((this.quant - quant) < 0){
            throw new InvalidQuantityException("Quantity cannot be below 0");
      }
      else{
            this.quant = this.quant - quant;
            System.out.println("New quantity is: " + this.quant);
      }
    }
}</pre>
```

