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Class:- AIML B1

Experiment 3

Aim:- Book Inventory System: Develop a Book class using constructors and exception handling. Store and manage records using ArrayList.

Code:

```
//import java.util.ArrayList;

public class Book {
    public String title;
    public String author;
    public String publisher;
    public String ISBN;
    public double price;
    public String genre;

    //Default Constructor
    public Book()
    {
        title="to Kill a Mockingbird";
        author="Harper Lee";
        publisher="J.B. Lippincott & Co.";
        ISBN="978-0-06-112008-4";
        price=200.00;
        genre="Fiction";
    }

    //Parameterized Constructor
    public Book(String t, String a, String p, String i, double prc, String
g)
    {
        title=t;
        author=a;
```

```

        publisher=p;
        ISBN=i;
        price=prc;
        genre=g;
    }
    //Copy Constructor
    public Book(Book otherBook) {
        this.title = otherBook.title;
        this.author = otherBook.author;
        this.publisher = otherBook.publisher;
        this.ISBN = otherBook.ISBN;
        this.price = otherBook.price;
        this.genre = otherBook.genre;
    }
}

```

```

public class InvalidBookGenreException extends Exception {
    public InvalidBookGenreException(String m) {
        super(m);
    }
}

```

```

public class InvalidPriceException extends Exception{
    public InvalidPriceException(String m){
        super(m);
    }
}

```

Output:

```

-----
Icon
499.0
Unknown
NA
Fiction
-----
-----

```

to Kill a Mockingbird

200.0

Harper Lee

978-0-06-112008-4

Fiction

Harry Potter

200.0

JK Rowling

978-0-06-112008-4

Fiction

Hunger Games

370.0

Suzanne Collins

ABDK223

Fiction

Fiction Books: 4

Average price: 469.5