

FALL SEMESTER (2020 -21)

CSE2005

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DATE: 11-11-2020

SLOT: L5

LAB NO: 2

QUESTION:

Write a Java class Author with following features:

- Instance variables :
 - **fName** for the author's first name of type String.
 - **lName** for the author's last name of type String.
- Constructor:
 - **public Author (String fName, String lName)**: A constructor with parameters, it creates the Author object by setting the two fields to the passed values.
- Instance methods:
 - **public void setFName (String firstName)**: Used to set the first name of author.
 - **public void setLName (String lastName)**: Used to set the last name of author.
 - **public String getFName()**: This method returns the first name of the author.
 - **public String getLName()**: This method returns the last name of the author.
 - **public String toString()**: This method printed out author's name to the screen

Write a Java class Book with following features:

- Instance variables :
 - **title** for the title of book of type String.
 - **author** for the author's name of type String.
 - **price** for the book price of type double.

- Constructor:
 - **public Book (String title, Author name, double price):** A constructor with parameters, it creates the Author object by setting the the fields to the passed values.
- Instance methods:
 - **public void setTitle(String title):** Used to set the title of book.
 - **public void setAuthor(Author author):** Used to set the name of author of book.
 - **public void setPrice(double price):** Used to set the price of book.
 - **public double getTitle():** This method returns the title of book.
 - **public double getAuthor():** This method returns the author's name of book.
 - **public String toString():** This method printed out book's details to the screen

Write a separate class **BookGroup** with a main() method creates a Book titled "Object Oriented Programming Systems" with authors Herbert Schildert price 1000/- . Prints the Book's string representation to standard output (using System.out.println).

CODE:

```
import java.util.*;
class Author {
    private String fName;
    private String lName;
    public Author(String fName, String lName){
        this.fName = fName;
        this.lName = lName;
    }
    public void setFName(String firstName){
        this.fName = firstName;
    }
    public void setLName(String lastName){
        this.lName =lastName;
    }
    public String getFName(){
        return fName;
    }
    public String getLName(){
        return lName;
    }
}
```

```

    }
    public String toString(){
        return fName + " " + lName;
    }
}
class Book{
    private String title;
    private String author;
    private double price;
    public Book(String title, String author, double
price){
        this.title = title;
        this.author = author;
        this. price = price;
    }
    public void setTitle(String title){
        this.title =title;
    }
    public void setAuthor(String author){
        this.author = author;
    }
    public void setPrice(double price){
        this.price = price;
    }
    public String getTitle(){
        return title;
    }
    public String getAuthor(){
        return author;
    }
    public double getPrice(){
        return price;
    }
    public String toString(){
        String temp = "Title :"+title+"\nAuthor
:" +author+"\nPrice : Rs." +price;
        return temp;
    }
}
public class Main{
    public static void main(String[]args){
        Scanner scan = new Scanner(System.in);

```

```

        System.out.println("Name of the Book:");
        String Title = scan.nextLine();
        System.out.println("Name of the Author:");
        String Author = scan.nextLine();
        System.out.println("Price of the Book:");
        double Price = scan.nextDouble();
        Book myBook = new Book(Title, Author, Price);
        System.out.println(myBook.toString());
        scan.close();
    }
}

```

OUTPUT:

```

> javac -classpath ./run_dir/junit-4.12.jar:target/dependency/* -d . Main.java
> java -classpath ./run_dir/junit-4.12.jar:target/dependency/* Main
Name of the Book:
Object Oriented Programming Systems
Name of the Author:
Herbert Schildert
Price of the Book:
1000
Title :Object Oriented Programming Systems
Author :Herbert Schildert
Price : Rs.1000.0
> 

```