

# LEADING UNIVERSITY, SYLHET

Dept. of Computer Science & Engineering

## An Assignment on Topic

Course Code: CSE-2214
Course Title: Object Oriented Programming Sessional

#### **Submitted To:**

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```
public class Book {
    String book title;
    String author;
    int number of pages;
    int book price;
    String book publication;
   void showInfo() (
        System.out.println("Book Title : "+book title);
        System.out.println("Author: "+author);
        System.out.println("Price : "+book price);
        System.out.println("Book Title : "+number of pages);
        System.out.println("Book Publication : "+book publication);
```

```
public class Task2 (
    public static void main(String[] args) (
        Book bookl, book2, book3;
       book1 = new Book();
        book2 = new Book();
        book3 = new Book();
        bookl.book title = "JAVA for Beginner 3rd edition";
        bookl.author = "By prof. David";
        book1.number of pages = 537;
        bookl.book price = 299;
        bookl.book publication = "Easy Coding Publications";
        book2.book title = "Omega point 12th edition";
        book2.author = "By Humayun Ahmed";
        book2.number of pages = 122;
        book2.book price = 128;
        book2.book publication = "Shomoy Prokashoni";
        book3.book title = "Digital Fortress 5th edition";
        book3.author = "By Dan Brown";
        book3.number of pages = 356;
        book3.book price = 520;
        book3.book publication = "St. Martin Press";
```

```
System.out.println("Bookl");
bookl.showInfo();
System.out.println("Book2");
book2.showInfo();
System.out.println("Book3");
book3.showInfo();
System.out.println("Bookl->"+bookl):
System.out.println("Book2->"+book2);
System.out.println("Book3->"+book3);
//Exchaning memory adress book3 to book1:
book1 = book3;
bookl.book title = "Digital Fortress 1st edition";
bookl.showInfo();
System.out.println("Bookl->"+bookl);
System.out.println("Book2->"+book2);
System.out.println("Book3->"+book3);
```

}

```
public class BillCalculator {
    public double calculateBasicBill(double unit) (
        double bill=0;
        if (unit<=199)
            bill = unit * 1.2:
            if (bill <= 100) bill = 100;
        else if (unit>199 && unit<400)
            bill = unit*1.5;
        else if (unit>=400 && unit<600)
            bill = unit*1.8;
        else
            bill = unit*2:
        return bill;
```

```
public double calculateSurcharge(double basicBill) {
    double surcharge = 0;
    if(basicBill>400)
        surcharge = (basicBill*15)/100;
    return surcharge;
public double getTotalBill(double unit) {
    double totalBill = calculateBasicBill(unit);
    totalBill += calculateSurcharge(totalBill);
    return totalBill:
```

```
public class Task_3 {
    public static void main(String[] args) {
        BillCalculator thebill;
        thebill = new BillCalculator();
        System.out.println("Total Bill for 25 units = "+thebill.getTotalBill(25));
        System.out.println("Total Bill for 250 units = "+thebill.getTotalBill(250));
        System.out.println("Total Bill for 812 units = "+thebill.getTotalBill(812));
}
```

# The differences between Book class and BillCalculator class are-

	Book Class	BillCalculator Class
1.	There is only one method in this class and it is void return type.	<ol> <li>There are actually 3 methods and these are with double return type.</li> </ol>
2.	This class is used for printing the book information.	2 . This class is all about calculation measuring the units.
3.	When we execute the main method(task- 2), it calls the showInfo from Book and prints the book information.	3 . In BillCalculator Class, it returns the total of amount based on the given units. When a method is called in this class, the 3 3 methods calculate the amount and return it.