# Lab Assignment 03



# Inspiring Excellence

<b>Course Code:</b>	CSE111
Course Title:	Programming Language II
Topic:	Instance Method and Method Overloading
Number of Tasks:	11

[Submit all the Coding Tasks (Task 1 to 8) in the Google Form shared on buX before the next lab. Submit the Tracing Tasks (Task 9 to 11) handwritten to your Lab Instructors at the beginning of the lab]

Task 1

Design the **BankAccount** class in such a way so that the following code provides the expected output.

Driver Class	Output
<pre>public class BankAccountTester{   public static void main(String args[]){     BankAccount acc1 = new BankAccount();     System.out.println(acc1.printDetails());     System.out.println("");     acc1.setInfo(1456890, "Salary");     System.out.println("");     System.out.println(acc1.printDetails());     System.out.println("");     BankAccount acc2 = new BankAccount();     acc2.setInfo(1765498, "Student");     System.out.println("4");     System.out.println(acc2.printDetails());   } }</pre>	Account No: 0 Type: Not Set1 Account information updated!2 Account No: 1456890 Type: Salary3 Account information updated!4 Account No: 1765498 Type: Student

## Task 2

Design the **Shape** class with necessary properties to produce the given output for the provided driver code.

Driver Class	Output
<pre>public class ShapeTester{   public static void main(String args []){     Shape circle = new Shape();     Shape triangle</pre>	Shape Name: Circle Area: 78.54 1
<pre>Shape triangle = new Shape(); Shape rectangle = new Shape();</pre>	Shape Name: Triangle Area: 14.0 2
<pre>circle.setParameters("Circle", 5); triangle.setParameters("Triangle", 4, 7); rectangle.setParameters("Rectangle", 2.4, 4.4);</pre>	Shape Name: Rectangle Area: 10.56

```
System.out.println(circle.details());
System.out.println("1-----");
System.out.println(triangle.details());
System.out.println("2-----");
System.out.println(rectangle.details());
}

System.out.println(rectangle.details());
}
```

Design the "Shelf" class with necessary properties, so that the given output is produced for the provided driver code.

Driver Class	Output
<pre>public class ShelfTester{   public static void main(String [] args){     Shelf shelf = new Shelf();     shelf.showDetails();     System.out.println("1");     shelf.addBooks(3);     System.out.println("2");     shelf.capacity = 7;     shelf.addBooks(3);     System.out.println("3");     shelf.showDetails();     System.out.println("4");     shelf.addBooks(5);     shelf.showDetails();     shelf.capacity += 4;     System.out.println("6");     shelf.addBooks(5);     shelf.showDetails();     shelf.showDetails();     shelf.showDetails(); }</pre>	Shelf capacity: 0 Number of books: 0 1 Zero capacity. Cannot add books. 2 3 books added to shelf 3 Shelf capacity: 7 Number of books: 3 4 Exceeds capacity Shelf capacity: 7 Number of books: 3 6 5 books added to shelf Shelf capacity: 11 Number of books: 8

## Task 4

Design the **Library** class with the necessary properties so that the given output is produced for the provided driver code.

Driver Code	Output
<pre>public class Tester{   public static void main(String[] args) {     Library a1 = new Library();     a1.setBookCapacity(3);     System.out.println("1");     a1.addBook("Ice");     System.out.println("2");     a1.printDetail();     System.out.println("3");     a1.addBook("Emma");     a1.addBook("Wings");     a1.addBook("Next");     System.out.println("4");     a1.printDetail();     Library a2 = new Library();     a2.setBookCapacity(4);     System.out.println("5");     a2.addBook("Onnobhubon");     a2.addBook("Ami");     System.out.println("6");     a2.printDetail();     System.out.println("7");     a2.addBook("Megher Upor Bari");     System.out.println("8");     a2.printDetail(); } </pre>	1 Book 'Ice' added to the library 2 Maximum Capacity: 3 Total Books: 1 Book list: Ice 3 Book 'Emma' added to the library Book 'Wings' added to the library Maximum capacity exceeds. You can't add more than 3 books 4 Maximum Capacity: 3 Total Books: 3 Book list: Ice Emma Wings 5 Book 'Onnobhubon' added to the library Book 'Ami' added to the library 6 Maximum Capacity: 4 Total Books: 2 Book list: Onnobhubon Ami 7 Book 'Deyal' added to the library Book 'Himu' added to the library Maximum capacity exceeds. You can't add more than 4 books 8 Maximum Capacity: 4 Total Books: 4 Book list: Onnobhubon Ami Deyal Himu

Design the **TaxiLagbe** class with necessary properties to produce the given output for the provided driver code.

Driver Code	Output
<pre>public class TaxiTester{   public static void main(String[] args) {     TaxiLagbe taxi1 = new TaxiLagbe();     taxi1.storeInfo("1010-01", "Dhaka");     System.out.println("1");     taxi1.printDetails();     System.out.println("2");     taxi1.addPassenger("Wilson", 105);     System.out.println("3");     taxi1.printDetails();     System.out.println("4");     taxi1.addPassenger("Walker", 100, "Wood", 200);     System.out.println("5");     taxi1.printDetails();     System.out.println("6");     taxi1.addPassenger("Karen", 200);     taxi1.addPassenger("Donald", 130);     System.out.println("7");     taxi1.printDetails();     System.out.println("8");     TaxiLagbe taxi2 = new TaxiLagbe();     taxi2.storeInfo("1010-02", "Khulna");     taxi2.addPassenger("Don", 115, "Parker", 215);     System.out.println("9");     taxi2.printDetails(); } </pre>	Taxi number: 1010-01 This taxi can cover Dhaka area Total Passenger: 0 Passenger Lists: Total collected fare: 0 Taka 2 Dear Wilson! Welcome to TaxiLagbe 3 Taxi number: 1010-01 This taxi can cover Dhaka area Total Passenger: 1 Passenger Lists: Wilson Total collected fare: 105 Taka 4 Dear Walker! Welcome to TaxiLagbe Dear Wood! Welcome to TaxiLagbe Dear Wood! Welcome to TaxiLagbe 5 Taxi number: 1010-01 This taxi can cover Dhaka area Total Passenger: 3 Passenger Lists: Wilson Walker Wood Total collected fare: 405 Taka 6 Dear Karen! Welcome to TaxiLagbe Taxi Full! No more passengers can be added 7 Taxi number: 1010-01 This taxi can cover Dhaka area Total Passenger: 4 Passenger Lists: Wilson Walker Wood Karen Total collected fare: 605 Taka 8 Dear Don! Welcome to TaxiLagbe

Dear Parker! Welcome to TaxiLagbe
Taxi number: 1010-02 This taxi can cover Khulna area
Total Passenger: 2
Passenger Lists: Don Parker
Total collected fare: 330 Taka

Design the **Student** class with the necessary properties to produce the given output for the provided driver code. **Hint:** 

- A student having cgpa>=3.5 and credit>10 is eligible for scholarship.
- A student with cgpa>=3.5 but <3.7 is eligible for Need-based scholarship.
- A student having cgpa >=3.7 is eligible for Merit based scholarship

Driver Code	Output
<pre>public class StudentTester{   public static void main(String[] args) {     Student std1 = new Student();     std1.showDetails();     System.out.println("1");     std1.updateDetails("Alif", 3.99, 12);     System.out.println("2");     std1.checkScholarshipEligibility();     System.out.println("3");     std1.showDetails();     Student std2 = new Student();     std2.updateDetails("Mim", 3.4);     Student std3 = new Student();     std3.updateDetails("Henry", 3.5, 15, "BBA");     System.out.println("5");     std2.checkScholarshipEligibility();     System.out.println("6");</pre>	Name: Not Set Department: CSE CGPA: 0.0 Credits: 9 Scholarship Status: Not Set 1 2

```
std3.checkScholarshipEligibility();
                                              scholarship
                                              7-----
   System.out.println("7----");
                                              Name: Mim
   std2.showDetails();
                                              Department: CSE
   System.out.println("8-----");
                                              CGPA: 3.4
   std3.showDetails();
                                              Credits: 9
 }
                                              Scholarship Status: No scholarship
}
                                              8-----
                                              Name: Henry
                                              Department: BBA
                                              CGPA: 3.5
                                              Credits: 15
                                              Scholarship Status: Need based
                                              scholarship
```

Complete the following Cart class to generate the given output from the tester code:

- A cart will have a cart number which will be assigned in *create\_cart()* method.
- Each cart can hold up to 3 items (at max).
- Each cart must have two arrays to store items and their respective prices.
- The items inside a cart will be added in *addItem()* method only if the cart items do not exceed 3.
- The *giveDiscount()* method saves the discount given to that cart object and updates the price accordingly.

Driver Code	Output
<pre>public class CartTester{</pre>	====1====
<pre>public static void main(String [] args){</pre>	Table added to cart 1.
Cart c1 = new Cart ();	You have 1 item(s) in your cart now.
Cart c2 = new Cart ();	Chair added to cart 1.
Cart c3 = new Cart ();	You have 2 item(s) in your cart now.
	Television added to cart 1.
<pre>c1.create_cart(1);</pre>	You have 3 item(s) in your cart now.
<pre>c2.create_cart(2);</pre>	You already have 3 items on your cart
<pre>c3.create_cart(3);</pre>	====2====
<pre>System.out.println("====1===");</pre>	Stove added to cart 2.
c1.addItem("Table", 3900.5);	You have 1 item(s) in your cart now.
c1.addItem("Chair", 1400.76);	====3====

```
c1.addItem(5400.87, "Television");
                                             Chair added to cart 3.
     c1.addItem(5000.0, "Refrigerator");
                                             You have 1 item(s) in your cart now.
                                             Chair added to cart 3.
                                             You have 2 item(s) in your cart now.
     System.out.println("====2===");
     c2.addItem("Stove",439.90);
                                             ====4====
                                             Your cart(c1):
     System.out.println("====3====");
                                             Table - 3900.5
     c3.addItem("Chair",1400.5);
                                             Chair - 1400.76
     c3.addItem(3400.0, "Chair");
                                             Television - 5400.87
                                             Discount Applied: 0.0%
     System.out.println("====4===");
                                             Total price: 10702.130000000001
                                             ====5====
     c1.cartDetails();
                                             Your cart(c2):
     System.out.println("====5====");
                                             Stove - 439.9
     c2.cartDetails();
                                             Discount Applied: 0.0%
                                             Total price: 439.9
     System.out.println("====6====");
                                             ====6====
     c3.cartDetails();
                                             Your cart(c3):
     c1.giveDiscount(10);
                                             Chair - 1400.5
                                             Chair - 3400.0
     System.out.println("====7====");
                                             Discount Applied: 0.0%
     c1.cartDetails();
                                             Total price: 4800.5
                                             ====7====
  }
}
                                             Your cart(c1):
                                             Table - 3900.5
                                             Chair - 1400.76
                                             Television - 5400.87
                                             Discount Applied: 10.0%
                                             Total price: 9631.917000000001
```

Design the **Reader** class in such a way so that the following code provides the expected output.

- A reader will have a name, capacity to read and an array of books they are reading.
- The initial capacity of a reader will be 0. The initial name will be "New user".

```
Driver Code
                                                               Expected Output
public class Reader_tester {
                                                        1 =======
public static void main(String[] args){
                                                        A new reader is created!
   Reader r1 = new Reader();
                                                        A new reader is created!
   Reader r2 = new Reader();
                                                        2 =======
                                                        Name: Messi
   System.out.println("1 =======");
                                                        Capacity: 2
   System.out.println(r1.createReader("Messi", 2));
                                                        Books:
   System.out.println(r2.createReader("Ronaldo", 3));
                                                        No books added yet
                                                        3 =======
   System.out.println("2 =======");
                                                        Name: Ronaldo
   r1.readerInfo();
                                                        Capacity: 3
                                                        Books:
   System.out.println("3 ======");
                                                        Book 1: Java
   r2.addBook("Java");
                                                        Book 2: Python
   r2.addBook("Python");
                                                        Book 3: C++
   r2.addBook("C++");
                                                        4 =======
   r2.readerInfo();
                                                        No more capacity
                                                        5 =======
   System.out.println("4 =======");
                                                        No more capacity
   r1.addBook("C#");
                                                        6 ======
   r1.addBook("Rust");
                                                        Name: Messi
   r1.addBook("GoLang");
                                                        Capacity: 2
                                                        Books:
   System.out.println("5 ======");
                                                        Book 1: C#
   r2.addBook("Python");
                                                        Book 2: Rust
   System.out.println("6 ======");
   r1.readerInfo();
}
}
```

```
1
      public class Task9 {
2
         public int temp = 4;
3
         public int sum;
         public int y;
         public int x;
6
         public void methodA(int m){
7
             int [] n = \{2,5\};
8
             int x = 0;
9
             y = y + m + this.methodB(x,m++)+(temp)+y;
10
             x = this.x + 2 + (++n[0]);
11
             sum = sum + x + y;
12
             n[0] = sum + 2;
            System.out.println(n[0] + x + " " + y + " " + sum);
13
14
15
         public int methodB(int m, int n){
16
             int [] y = \{1\};
             this.y = y[0] + this.y + m;
17
18
             x = this.y + 2 + temp - n;
19
             sum = x + y[0] + this.sum;
             System.out.println(y[0] + x + " " + y[0] + " " + sum);
20
21
             return y[0];
22
         }
23
     }
```

```
public class Tester9 {
  public static void main(String [] args){
    Task9 t1 = new Task9();
    t1.methodA(5);
    t1.methodA(3);
    Task9 t2 = new Task9();
    t2.methodA(4);
}

Outputs
```

1	<pre>public class Maze{</pre>
2	public int x;
3	<pre>public void methodA(){</pre>
4	int $m = 0$ , $x = 9$ ;
5	<pre>m = methodB(m-3)+x;</pre>
6	this.x = ++x;
7	System.out.println(this.x+" "+m);
8	<pre>methodB(x,m);</pre>
9	<pre>System.out.println(x+" "+(m+this.x));</pre>
10	<pre>methodB(m);</pre>
11	}
12	<pre>public int methodB(int y){</pre>
13	x=y*y;
14	<pre>System.out.println(x+" "+y);</pre>
15	return x-11;
16	}

17	<pre>public void methodB(int z, int x){</pre>
18	z=z-2;
19	x=this.x-2*x;
20	<pre>System.out.println(z+" "+this.x);</pre>
21	}
22	}

DRIVER CODE	OUTPUTS	
<pre>public class MazeTester{</pre>		
<pre>public static void main(String args []){</pre>		
<pre>Maze m1 = new Maze();</pre>		
<pre>m1.methodA();</pre>		
}		
}		

```
public class Test11 {
       int x = 2, y = 4, z = 5;
2
       double p = 0.0;
3
       public void methodA(int x, int m) {
4
           this.x = methodC(this.x);
5
           p = x + this.x % m * 3.0;
6
           y = y + methodB(x++, this.x);
7
           System.out.println(this.x +" " + x + y + " " + p);
8
9
       }
10
       public int methodB(int q, int n) {
```

```
int arr[] = {3,4,5};
11
           arr[0] = arr[0] + this.x + n;
12
           arr[1] = q + arr[1];
13
           System.out.println(arr[0] +" " + arr[1] + " " + arr[2]) ;
14
           return arr[1] + arr[2];
15
16
       }
       public int methodC(int y) {
17
           if(y % 2 == 0) {
18
               int temp = methodB(2, y);
19
               return temp;
20
21
           }
22
           else{
               return 4;
23
24
          }
       }
25
26
```

Driver Code	Output	
<pre>public class Tester11 {    public static void main(String [] args){       Task11 t1 = new Task11();       t1.methodA(2,3);       t1.methodB(5,4); }</pre>		
}		

#### **Ungraded Tasks (Optional)**

(You don't have to submit the ungraded tasks)

#### Task 1

You are building a tracker system that will keep track of a person's income and expenses.

- When the *createTracker()* method is invoked it sets the balance to 1.0 taka.
- The *info()* method **returns** a String with the trackers information.
- If the total balance becomes 0 after the *expense()* method is called it prints "You're broke!". Again if the available balance is less than the expense it prints "Not enough balance.". Otherwise the method prints "Balance updated" after updating the balance.
- The last expense and income history can be seen by using the *history()* method.

Driver Code	Output
<pre>public class Tester4{    public static void main(String[] args) {       MoneyTracker tr1 = new MoneyTracker();       System.out.println(tr1.info());       tr1.createTracker("John");       System.out.println("1 ========");       System.out.println(tr1.info());       System.out.println("2 ========");       tr1.income(1000);       System.out.println(tr1.info());       System.out.println("3 ========");       tr1.expense(800);       tr1.expense(100);       System.out.println(tr1.info());       System.out.println("4 ========");       tr1.showHistory();       System.out.println("5 ========");       tr1.expense(101);       System.out.println("6 ========");       tr1.expense(200);       System.out.println("7 ========");       tr1.income(200);       tr1.showHistory();       System.out.println("8 ========");    } }</pre>	Name: null Current Balance: 0.0 1 ======== Name: John Current Balance: 1.0 2 ======= Balance Updated! Name: John Current Balance: 1001.0 3 ======== Balance Updated. Balance Updated. Name: John Current Balance: 101.0 4 ======== Last added: 1000.0 Last spent: 100.0 5 ========= You're broke! 6 ========= Not enough balance. 7 ======== Balance Updated! Last added: 200.0 Last spent: 100.0 8 ========

```
1
   public class Test2 {
       int x = 3, y = 1, z = -4;
2
3
       double p = 2.5;
4
       public void methodA(int n, int x) {
5
            this.x = methodB(x, n);
6
            p = this.x + n % x * 2.0;
7
           y = (z++) + methodB(z, (int) p) + (++z);
           System.out.println(this.x + " " + (n + y) + " " + (x + z));
8
9
       }
       public int methodB(int q, int n) {
10
11
            int arr[] = \{2, -5, 6\};
            arr[0] = arr[2] - this.x + n;
12
13
            arr[1] = q - arr[1];
            arr[2] = arr[q % 3] + arr[n % 2];
14
           System.out.println(arr[0] + " " + arr[1] + " " + arr[2]);
15
16
            return arr[1] + arr[2] - arr[0];
17
       }
18
   }
```

<pre>public class Tester2{    public static void main(String [] args){</pre>	Outputs		
Test2 t = new Test2();			

```
public class Test3 {
1
        int x = 2, y = 4, sum = 3;
2
        int arr[] = \{x, y, sum\};
3
4
        public void methodA(int x) {
            arr[0] += methodB(y, this.x) + methodC(x);
5
            System.out.println(x + " " + this.x + " " + sum);
6
7
            arr[1] += this.x * (++y) / (sum % x);
            System.out.println(y + " " + sum + " " + this.x);
8
9
            arr[2] += methodC(x) + methodB(this.x, sum);
            System.out.println(arr[0] + " " + arr[1] + " " + arr[2]);
10
        }
11
12
        public int methodB(int q, int n) {
            int arr2[] = {7, 8};
13
14
            int a = (arr2[0]++) - q;
            int b = (++arr2[1]) - n;
15
16
            return a + b;
17
        }
        public int methodC(int z) {
18
            z = sum + methodB(x, sum) - z;
19
20
            return z/2;
        }
21
22
```

```
public class Tester3{
   public static void main(String [] args){
     Test3 t3 = new Test3();
     t3.methodA(7);
}

Outputs
```

Driver Code	Output
<pre>public class CustomerTester {</pre>	1======
<pre>public static void main(String[] args) {</pre>	Customer: John
<pre>Customer c1 = new Customer();</pre>	2=======
<pre>c1.createCustomer("John");</pre>	Apple added to cart
<pre>System.out.println("1=========");</pre>	Orange added to cart
<pre>c1.showCart();</pre>	Bread added to cart
System.out.println("2=========");	Milk added to cart
<pre>c1.addItem("Apple", 2);</pre>	Cart is full
<pre>c1.addItem("Orange", 5);</pre>	3=======
<pre>c1.addItem("Bread", 5);</pre>	Customer: John
<pre>c1.addItem("Milk", 3);</pre>	Item: Apple Price: 2
<pre>c1.addItem("Eggs", 2);</pre>	Item: Orange Price: 5
System.out.println("3=========");	Item: Bread Price: 5
<pre>c1.showCart();</pre>	Item: Milk Price: 3
System.out.println("4=========");	4===========
<pre>c1.calculatePrice();</pre>	Total: 15
System.out.println("5=========");	5===========
<pre>Customer c2 = new Customer();</pre>	Apple and Orange added to cart
<pre>c2.createCustomer("Jane");</pre>	Chocolates and Bread added to cart
<pre>c2.addItem("Apple", 2, "Orange", 5);</pre>	Cart is full
<pre>c2.addItem("Chocolates", 15, "Bread", 5);</pre>	6======
<pre>c2.addItem("Milk", 3);</pre>	Customer: Jane
System.out.println("6=========");	Item: Apple Price: 2
c2.showCart();	Item: Orange Price: 5
System.out.println("7=========");	Item: Chocolates Price: 15
<pre>c2.calculatePrice();</pre>	Item: Bread Price: 5
}	7============
}	Total: 27

Driver Code	Sample Output
<pre>public class CalculatorTester {   public static void main(String[] args) {     Calculator calc = new Calculator();      System.out.println("1=========");     calc.add(10, 20);     System.out.println("2========");     calc.add(5, 15, 25);     System.out.println("3=========");     calc.multiply(6, 7);     System.out.println("4=========");     calc.multiply(2, 3, 4);     System.out.println("5=========");     calc.multiply("Hello", 3);     System.out.println("6=========");     calc.multiply("Java", 5); }</pre>	1=====================================
<pre>System.out.println("2========"); calc.add(5, 15, 25); System.out.println("3========"); calc.multiply(6, 7); System.out.println("4========"); calc.multiply(2, 3, 4); System.out.println("5========="); calc.multiply("Hello", 3); System.out.println("6=========");</pre>	24 5======= Hello-Hello 6========

Driver Code	Sample Output
<pre>public class LibraryTest {   public static void main(String[] args) {     Book book1 = new Book();     book1 = new Book("The Creek Catche"); }</pre>	Book Customization  Updated genre of "The Great Gatsby" to Classic. Updated pages of "The Great Gatsby" to
<pre>book1.createBook("The Great Gatsby");  Book book2 = new Book(); book2.createBook("1984", "George Orwell");</pre>	180 pages. Updated genre of "1984" to Dystopian. Updated pages of "1984" to 328 pages. Updated pages of "To Kill a Mockingbird" to 281 pages.
<pre>Book book3 = new Book(); book3.createBook("To Kill a Mockingbird", "Harper Lee", "Fiction");</pre>	Library Inventory  Title: The Great Gatsby, Author: Unknown, Genre: Classic, Pages: 180
<pre>System.out.println(" Book Customization "); book1.customizeGenre("Classic"); book1.customizePages(180);</pre>	Title: 1984, Author: George Orwell, Genre: Dystopian, Pages: 328 Title: To Kill a Mockingbird, Author: Harper Lee, Genre: Fiction, Pages: 281
<pre>book2.customizeGenre("Dystopian"); book2.customizePages(328);</pre>	,
<pre>book3.customizePages(281);</pre>	
<pre>System.out.println();</pre>	
<pre>System.out.println(" Library Inventory ");</pre>	

```
book1.displayDetails();
book2.displayDetails();
book3.displayDetails();
}
}
```

Driver Code	Sample Output
<pre>public class MovieManagerTest {   public static void main(String[] args) {     Movie inception = new Movie();     inception.setMovieDetails("Inception", "Christopher Nolan", 8.8);</pre>	1=====================================
<pre>System.out.println("1===========");   inception.addActors("Leonardo DiCaprio", "Joseph Gordon-Levitt");   inception.addActors("Ellen Page");   inception.showInfo();</pre>	Added actor "Ellen Page" to "Inception". Title: Inception Director: Christopher Nolan Rating: 8.8 Actors: Leonardo DiCaprio, Joseph
<pre>System.out.println("2===========");   Movie avengers = new Movie();   avengers.setMovieDetails("Avengers: Endgame", "Anthony Russo", 8.4);   avengers.addActors("Robert Downey Jr.", "Chris Evans", "Scarlett Johansson");   avengers.showInfo();</pre>	Gordon-Levitt, Ellen Page 2====================================
<pre>System.out.println("3==========="); Movie parasite = new Movie(); parasite.setMovieDetails("Parasite", "Bong Joon-ho"); parasite.addActors("Song Kang-ho", "Choi Woo-shik"); parasite.updateRating(8.6); parasite.showInfo();</pre>	Director: Anthony Russo Rating: 8.4 Actors: Robert Downey Jr., Chris Evans, Scarlett Johansson 3====================================
<pre>System.out.println("4==========");   parasite.updateRating(8.9);   parasite.showInfo();   } }</pre>	Added actor "Choi Woo-shik" to "Parasite". Updated rating of "Parasite" to 8.6 Title: Parasite Director: Bong Joon-ho Rating: 8.6 Actors: Song Kang-ho, Choi Woo-shik 4====================================
	Updated rating of "Parasite" to 8.9 Title: Parasite Director: Bong Joon-ho Rating: 8.9 Actors: Song Kang-ho, Choi Woo-shik

Design the **Course** class with the necessary properties so that the given output is produced for the provided driver code.

Driver Class	Output
<pre>public class CourseTester2{   public static void main(String [] args){     Course c1 = new Course();     c1.updateDetails("PL II", "CS11");     System.out.println("");     c1.printDetails();     System.out.println("");     c1.addContent("Overloading");     c1.printDetails();     System.out.println("");     c1.addContent("Encapsulation");     c1.addContent("Static", "Polymorphism");     c1.printDetails();     System.out.println("4");     c1.addContent("Inheritance");     System.out.println("5");     Course c2 = new Course();     c2.updateDetails("DS", "CS22");     c2.addContent("Recursion", "Tree");     c2.addContent("Recursion", "Tree");     c2.addContent("Heap", "Hashing");     System.out.println("6");     c2.printDetails(); } </pre>	Course details: Course Name: PL II Course Code: CS11 Course Syllabus: No content yet2 Overloading was added. Course details: Course Name: PL II Course Code: CS11 Course Syllabus: Overloading3 Encapsulation was added. Static was added. Polymorphism was added. Course details: Course Name: PL II Course Code: CS11 Course Syllabus: Overloading, Encapsulation, Static, Polymorphism4 Cannot add more content5 Stack was added. Recursion was added. Tree was added. Recursion was added. Cannot add more content6 Course details: Course Name: DS Course Syllabus: Stack, Recursion, Tree, Heap