

Define a class Invoice with the following datamebers and methods

invoiceId : inv1

invoicePrice : 2300.50

vendorName : vendor1

invoiceName : abc ltd.

location : Pune

add a default constructor

define follwing methods

addInvoice() - read from user

displayInvoice() - display all datamebers

crate array objects to store 'n' no. of invoices.

import java.util.Scanner;

```
class Invoice {
    private String invoiceId;
    private double invoicePrice;
    private String vendorName;
    private String invoiceName;
    private String location;

    // Default constructor
    public Invoice() {
        invoiceId = "inv1";
        invoicePrice = 2300.50;
        vendorName = "vendor1";
        invoiceName = "abc ltd.";
        location = "Pune";
    }

    // Method to add an invoice by reading from the user
    public void addInvoice() {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter Invoice ID: ");
        invoiceId = scanner.nextLine();
        System.out.print("Enter Invoice Price: ");
        invoicePrice = scanner.nextDouble();
        scanner.nextLine();
        System.out.print("Enter Vendor Name: ");
        vendorName = scanner.nextLine();
        System.out.print("Enter Invoice Name: ");
        invoiceName = scanner.nextLine();
        System.out.print("Enter Location: ");
        location = scanner.nextLine();
    }

    // Method to display all data members of the invoice
    public void displayInvoice() {
        System.out.println("Invoice ID: " + invoiceId);
        System.out.println("Invoice Price: " + invoicePrice);
        System.out.println("Vendor Name: " + vendorName);
        System.out.println("Invoice Name: " + invoiceName);
        System.out.println("Location: " + location);
    }
}
```

```

public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
    System.out.print("Enter the number of invoices (n): ");
    int n = scanner.nextInt();

    // Create an array to store 'n' invoices
    Invoice[] invoices = new Invoice[n];

    for (int i = 0; i < n; i++) {
        invoices[i] = new Invoice();
        System.out.println("Enter details for Invoice " + (i + 1) + ":");
        invoices[i].addInvoice();
    }

    // Display the details of all invoices
    System.out.println("Details of Invoices:");
    for (int i = 0; i < n; i++) {
        System.out.println("Invoice " + (i + 1) + ":");
        invoices[i].displayInvoice();
    }
}
}

```

Output:

```

Enter the number of invoices (n): 2
Enter details for Invoice 1:
Enter Invoice ID: 01
Enter Invoice Price: 350
Enter Vendor Name: shravanthi
Enter Invoice Name: ashwini
Enter Location: hyderabad
Enter details for Invoice 2:
Enter Invoice ID: 02
Enter Invoice Price: 250
Enter Vendor Name: likitha
Enter Invoice Name: shylu
Enter Location: pune
Details of Invoices:
Invoice 1:
Invoice ID: 01
Invoice Price: 350.0
Vendor Name: shravanthi
Invoice Name: ashwini
Location: hyderabad
Invoice 2:
Invoice ID: 02
Invoice Price: 250.0
Vendor Name: likitha
Invoice Name: shylu
Location: pune

```